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KINGSTON ONTARIO CANADA



Queen's University

KINGSTON, CANADA



INCORPORATED BY ROYAL CHARTER IN 1841

CALENDAR OF THE FACULTY OF ARTS

NINETY-SIXTH SESSION
1936-37

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CALENDAR OF THE FACULTY OF ARTS

NINETY-SIXTH SESSION
1936-37

PRINTED FOR THE UNIVERSITY BY THE JACKSON PRESS
KINGSTON
1936



BUILDINGS OF QUEEN'S UNIVERSITY

PLAN OF QUEEN'S UNIVERSITY GROUNDS

- | | | |
|-----------------------------------|----------------------------|---|
| 1. Central Heating Plant. | 11. Carruthers Hall. | 21. Richardson Stadium. |
| 2. Commerce Building. | 12. Fleming Hall. | 22. Leonard Field. |
| 3. Observatory. | 13. Storehouse. | 23. Kingston General Hospital
and Richardson Laboratory. |
| 4. Ban Righ Hall. | 14. Mechanical Laboratory. | 24. Miller Hall. |
| 5. Theological Hall. | 15. Nicol Hall. | 25. Gymnasium. |
| 6. Principal's Residence. | 16. Gordon Hall. | 26. Students' Memorial Union. |
| 7. Old Medical Building. | 17. Douglas Library. | 27. Gordon House. |
| 8. Hydraulics Laboratory. | 18. Ontario Hall. | 28. Goodwin House. |
| 9. Medical Laboratories Building. | 19. Grant Hall. | 29. Macdonnell House. |
| 10. Jock Harty Arena. | 20. Kingston Hall. | |

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THE ACADEMIC YEAR*

THE NINETY-SIXTH SESSION of the University will begin on Wednesday, September 23rd, 1936, at 8 a.m. Convocation will be held on Wednesday, May 5th, 1937. (This date is provisional.)

1936

- May 1*—Written notice due at the Registrar's Office of candidates' intention to compete for Ontario Matriculation Scholarships.
- July 2*—Registration for Summer School. Registrations will not be accepted after July 3 except when special arrangements have been made *before that date*, and on these late registrations the additional fee of \$3 will be charged.
- July 3*—Summer School opens at 8 a.m.
- July 15*—Last day for receiving applications, accompanied by fees, for September examinations, or degrees, from intramural and extramural students.
- Aug. 14*—Summer School closes at 5 p.m.
- Aug. 29*—Arts Supplemental examinations begin.
- Sept. 1*—Last day for receiving applications for the Robert Bruce Bursaries.
- Sept. 11*—Last day for registration of extramural students without extra fee.
- Sept. 18*—Last day for registration of extramural students with extra fee of \$3.
- Sept. 21*—Registration in Arts begins at 2 p.m. for students who are registering for the first time. Such students must submit a certificate of vaccination.
- Sept. 22*—Last day for registration of students registering for the first time. A late fee will be charged after this date (\$3 on September 23 and \$1 a day thereafter).

*The term "Academic Year" used in connection with Regulations and Courses of Study refers to the period extending from October 1 to September 30.

Sept. 23—Registration of intramural students who have been registered in previous sessions (one day only). A late fee will be charged after this date (\$3 on September 24 and \$1 a day thereafter).

Sept. 24—Classes in Arts open at 8 a.m.

Oct. 3—Last day for registration of intramural students who have not previously obtained permission to register later.

Mid-term examinations are held the last few days of October and the first few days of November.

Dec. 1—First day upon which extramural students may transfer to intramural classes.

Dec. 15—Mid-year examinations begin.

Dec. 22—Christmas holidays begin at 12 o'clock noon.

1937

Jan. 4—Examinations in half-courses of the first term begin.

Jan. 7—Classes re-open at 8 a.m.

Jan. 15—Last day for receiving applications from candidates for the M. C. Cameron Scholarship in Gaelic.

Feb. 15—Last day for receiving applications from candidates for the Dominion Entrance Scholarships.

 Last day for receiving applications and fees from extramural students for the April examinations and for degrees.

Mar. 15—Last day for receiving applications and fees for degrees from intramural students.

Mar. 26—Good Friday.

April 1—Last day for receiving manuscripts for University Prizes, theses for degrees, and applications for Arts Research Fellowships, Leonard Fellowships and Khaki University Scholarships.

April 2—Class work closes at 5 p.m.

April 6—Examinations begin.

April 10—Last day for extramural students to add classes for the summer session without extra fee.

April 17—Last day for extramural students to add classes for the summer session with extra fee.

May 5—Convocation for conferring Degrees, announcing Honours, and distributing Prizes and Medals. (This date is provisional.)

1936

JANUARY							FEBRUARY							MARCH							APRIL						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
....	....	....	1	2	3	4	2	3	4	5	6	7	8	1	2	3	4	5	6	7	....	....	....	1	2	3	4
5	6	7	8	9	10	11	2	3	4	5	6	7	8	8	9	10	11	12	13	14	5	6	7	8	9	10	11
12	13	14	15	16	17	18	9	10	11	12	13	14	15	15	16	17	18	19	20	21	12	13	14	15	16	17	18
19	20	21	22	23	24	25	16	17	18	19	20	21	22	22	23	24	25	26	27	28	19	20	21	22	23	24	25
26	27	28	29	30	31	....	23	24	25	26	27	28	29	29	30	31	....	....	....	....	26	27	28	29	30	....	....

MAY								JUNE								JULY								AUGUST							
S	M	T	W	T	F	S		S	M	T	W	T	F	S		S	M	T	W	T	F	S		S	M	T	W	T	F	S	
...	...	...	...	...	1	2		....	1	2	3	4	5	6		....	....	1	2	3	4	5		...	...	...	...	...	...	1
3	4	5	6	7	8	9		7	8	9	10	11	12	13		5	6	7	8	9	10	11		2	3	4	5	6	7	8	
10	11	12	13	14	15	16		14	15	16	17	18	19	20		12	13	14	15	16	17	18		9	10	11	12	13	14	15	
17	18	19	20	21	22	23		21	22	23	24	25	26	27		19	20	21	22	23	24	25		16	17	18	19	20	21	22	
24	25	26	27	28	29	30		28	29	30	....	....	....	....		26	27	28	29	30	31	....		23	24	25	26	27	28	29
31																								30	31						

SEPTEMBER							OCTOBER							NOVEMBER							DECEMBER						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
....	....	1	2	3	4	5	....	....	....	....	1	2	3	1	2	3	4	5	6	7	..	..	1	2	3	4	5
6	7	8	9	10	11	12	4	5	6	7	8	9	10	8	9	10	11	12	13	14	6	7	8	9	10	11	12
13	14	15	16	17	18	19	11	12	13	14	15	16	17	15	16	17	18	19	20	21	13	14	15	16	17	18	19
20	21	22	23	24	25	26	18	19	20	21	22	23	24	22	23	24	25	26	27	28	20	21	22	23	24	25	26
27	28	29	30	....	....	....	25	26	27	28	29	30	31	29	30	....	....	....	....	....	27	28	29	30	31	....	....

1937

[illegible][illegible]

SEPTEMBER							OCTOBER							NOVEMBER							DECEMBER						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
..	..	..	1	2	3	4	..	..	..	..	..	1	2	..	1	2	3	4	5	6	..	..	..	1	2	3	4
5	6	7	8	9	10	11	3	4	5	6	7	8	9	7	8	9	10	11	12	13	5	6	7	8	9	10	11
12	13	14	15	16	17	18	10	11	12	13	14	15	16	14	15	16	17	18	19	20	12	13	14	15	16	17	18
19	20	21	22	23	24	25	17	18	19	20	21	22	23	21	22	23	24	25	26	27	19	20	21	22	23	24	25
26	27	28	29	30	....	....	24	25	26	27	28	29	30	28	29	30	....	....	....	....	26	27	28	29	30	31	....
...	...	...	...	...	...	...	31	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

TIME-TABLE OF LECTURES, 1936-37

	8 M.W.F.	9 M.W.F. 10, W.F.	10 M.W.F.	11 M.W.F.	8 T.T.S.	9 T.T.S.	10 T.T.S.	11 T.T.S.	1 p.m.	2 p.m.	3 p.m.	4 p.m.
Bacteriology												
Biblical Lit.									1, T.T.F			
Biology . . .		12, M.W.	18, M.W. 31, M.W.		16, T.T. 21, T.T.	1, T.T. 11, T.T.	2, T.T. 45	17, T.T.				
Chemistry .		1, 13, M.W.	15a, F. 25, M.	12, W.F. 16, M.F. 21b, M.F.	25, Tu.	14, T.T.	17, T.T. 24, T.T.	2, T.T. 22, T.T.	3, Th.			
Classical Lit						1					Eco. 16t (Tu.)	
Economics, Commerce and Politics	Com. 60	Ec. 28a Ec. 26b Pol. 32	Pol. 2 Ec. 17, W. Ec. 23 Com. 55b	Com. 54 Com. 63	Ec. 12	Ec. 4 Com. 66a Com. 67b	Com. 64a Com. 65b	Com. 52 Pol. 35		1, M.W.F. 10b, M.W.F. 11a, M.W.F. 15, T.T. 33, Th.		
English . .		2(A, B) 14a, 14b	1, 18 2, 3	3 22	1	20	10	2 (C.) 16b, 17a				
French . .		22	14a W.F. 15, M.	1, 10, 20, 21		1	2, 3	11, 12				
Geology . .		11 W.F. 113, W.F.	14a W.F. 15, M.	1, M. W. 10a, F.		13, T.T. 114, T.T.		15, Tu. 10a, Tu.	15, Th.			
German . .			2, 14a, 15b	10		1, 12	A					A (M)
Greek			Greek 26	1, 2, 21		A, 10, 11		Gk.&Rom. Hist. 4	A (M)			
Hebrew . .												
History . .		17, 12	13	27	2 3	16, 18a, 19b	20a, 21b	1	1, T.T.F			
Latin			1, 15				10 11, 21	2				
Mathematics	1, 2 12a, 15b	Hon. Group A		10a, 11b	2 14a, 16b	Ast.1, Hon. Group A	1, T.T.	3a, 7b				
Mineralogy .			10a, M.F. 10b, M.F.	12, W.F.	11, T.T.							
Philosophy .		1	10	22		24a, 26b	18	2				
Physics . . .			13b, M.W. 14a	16a, 20b		2	10b, T.T. 12a, T.T.	1, 21a 17b, T.T.		11, M.F.		
Spanish . . .		1 Italian 1	22	A		A 10	2, 6			30, M.W.F.		

TIME TABLE OF LABORATORY WORK

The numbers in parentheses indicate the hours.

	Mon.	Tues.	Wed.	Thur.	Fri.	Sat.
Bacteriology			10 (1-4)			
Biology	1 (Sec. A, 2-4) 2 (Sec. B, 1-4) 16 (1-4)	11 (1-4) 18 (1-4)	1 (Sec. B, 1-4) 2 (Sec. A, 1-4)	12 (1-4)	17 (1-4) 31 (1-4)	
Chemistry	17 (1-4)	3 (1-5) 12 (1-4) 14 (1-4) 15a (1-4)	2 (1-4) 12 (1-4) 16 (3-4) 22 (1-4) 25 (1-4)	1 (1-3) 13 (1-4) 16 (1-3) or (3-4)	2 (1-4) 16 (1-3) 24 (1-4)	12 (9-12) 22 (9-12)
Geology	11 (8-10) 17 (1-5)	10a (2-4)	1 (Sec. A) (1-3) 113 (1-4)	1 (Sec. B) (1-3) 114 (1-4)		
Mineralogy			11 (1-3)		1 (2-4) 10a (1-3) or (8-10)	10b (10-12) 12 (10-12) (a)
Physics		1 (Sec. A, 1-3) 12a (3-5) 13b (3-5) 17b (2-4)	1 (Sec. B, 1-3) 11 (1-3)	2 (3-5) 10b (3-5) 14a (3-5)		

HISTORY OF THE UNIVERSITY

Queen's University owes its origin to the desire of the Synod of the Presbyterian Church in Canada, in connection with the Church of Scotland, for a ministry trained within the country. As early as 1832 the Provincial Government had been petitioned "to endow without delay an institution, or professorships, for the education and training of young men for the ministry in connection with the Synod." This and other representations failing of their object, steps were taken by the Synod to found a college at Kingston on the lines of the Scottish National Universities. On October 16, 1841, a Royal Charter was issued by Her Majesty Queen Victoria for the establishment of Queen's College, Kingston, and the first classes were opened in March, 1842, with the Rev. Dr. Liddell as Principal. Funds were provided in part by grants from the Presbyterian Church in Scotland and from the Canadian Government, and in part by liberal subscriptions from the friends of the young and growing University. In 1867-68, however, the withdrawal of the Provincial grant, and the failure of the Commercial Bank, almost brought financial disaster. But the crisis was met by the determination of Principal Snodgrass and of other self-denying workers, chief among whom was Professor Mackerras. The country was canvassed for subscriptions, and as a result of the widespread interest aroused, \$113,000 was added to the endowment.

In 1877 Principal Snodgrass was succeeded by the Rev. G. M. Grant, who for a quarter of a century built with brilliant success upon the foundation laid by his predecessors. Under him the University gained rapidly in size and prestige. By 1881 Queen's had a new building, an enlarged staff, and a great increase of students. In 1887, as the result of an effort in commemoration of the Queen's Jubilee, \$250,000 was raised, resulting in further extension, and in the establishment of new professorships.

Principal Grant died in 1902, and was succeeded in the following year by the Very Rev. D. M. Gordon. In 1916, owing to ill-health, Principal Gordon resigned his position, but continued in office until the autumn of 1917, when Rev. R. Bruce Taylor was appointed as his successor. In 1930 Principal Taylor resigned his position to live abroad and Dr. J. C. Connell was appointed Acting Principal. He held this position for four months, until October, when W. Hamilton Fyfe, Headmaster of Christ's Hospital, England, and formerly Fellow of Merton College, Oxford, was installed as Principal of the University. Principal Fyfe resigned in 1936 to accept the Principalship of the University of Aberdeen.

In 1854 the Medical Faculty of Queen's was established. It was re-organized in 1865 as the Royal College of Physicians and Surgeons in affiliation with the University, but in 1891 the original status was resumed. Excellent facilities for clinical work are provided in the Kingston General Hospital, Hotel Dieu, and the Ontario Hospital.

Queen's led the way in co-education. As early as 1870 special classes in English and other subjects were formed for women, but Courses leading to a degree were not thrown open to them until 1878-79. In 1880 co-education was extended to the medical course, and in 1883 a separate Women's Medical College was opened and affiliated with Queen's. It was closed, however, in 1894, as similar facilities were offered in Toronto and elsewhere.

The School of Mining was founded in 1893 under an Ontario charter. For several sessions all its departments were housed in Carruthers Hall, which had been erected in 1891, but in view of the rapid growth of the School the Provincial Legislature in 1900 provided for its accommodation two large buildings, Ontario Hall for the Departments of Physics, Geology and Mineralogy, and Fleming Hall for the Departments of Civil, Mechanical, and Electrical Engineering. In 1911 the Provincial Government erected Gordon Hall, which is entirely used for the teaching of Chemistry, and, through the generosity of Professor Nicol and other graduates, Nicol Hall was built to provide class rooms and laboratories for the Department of Mining and Metallurgy. The School of Mining, which since 1893 had been under the control of a separate Board, was in 1916 amalgamated with the University, and now constitutes its Faculty of Applied Science.

In 1907 the Ontario Government established at Queen's a second Faculty of Education for the purpose of providing professional training for teachers in the secondary schools of the Province. In 1920, however, the work of the Faculty was discontinued because of the decision of the Government to extend the scope of the Normal Schools and to create in Toronto the Ontario College for Teachers.

There is now on the University Campus a stately group of buildings, comprising the Old Arts Building (now the Theological Building); Carruthers Hall (Civil Engineering); Kingston Hall (Arts), the gift of the city of Kingston; Grant Hall, erected by students, graduates and friends in honour of Principal Grant; Ontario Hall (Physics, Chemical Engineering); Fleming Hall (Mechanical and Electrical Engineering); Gordon Hall (Chemistry); Nicol Hall (Mining and Metallurgy); the Medical Building (Anatomy, Pharmacology and Preventive Medicine); the Medical Laboratories Building; the new Gymnasium; Miller Hall (Geology and Mineralogy), named in memory of the late Dr. W. G. Miller; the Observatory; the Douglas Library, named in memory of Dr. James

Douglas, a former chancellor of the University, who contributed \$150,000 to its cost; Ban Righ Hall, the residence for women erected through the efforts of the Alumnae Association, and the Richardson Pathological Laboratory. The Province of Ontario, besides its generous gifts of Ontario, Fleming, and Gordon Halls, contributed \$150,000 to the Douglas Library and \$125,000 to the new Central Heating and Power Plant. The City of Kingston, besides providing Kingston Hall, made a gift of \$150,000 for its reconstruction and fire-proofing in 1932.

Queen's University, though founded by a Church, was dedicated to the nation. As its constituency expanded, its constitution was gradually broadened, until finally in 1912, as a result of an amicable arrangement between the Presbyterian Church and the Trustees of the University, an act was passed by the Dominion Parliament removing the last vestige of denominational control.

The endowment of the University is at present about \$2,450,000, and the annual income, derived from all sources, is nearly \$700,000. The registration of students has grown from 665 in 1900 to over 3,500 in the present session, and Queen's has become nation-wide in its work and influence.

GOVERNMENT AND ADMINISTRATION

The administration of the University is vested in the Board of Trustees, the University Council, the Senate, and the Faculty Boards.

THE BOARD OF TRUSTEES

The Board of Trustees consists of *ex-officio* and elective members. The former are the Chancellor, the Principal, and the Rector. The latter consist of (1) one representative from each affiliated college, (2) representatives as provided for by the Statutes from (a) the University Council, (b) the Benefactors, (c) the Graduates, and (3) members elected by the Board of Trustees.

The functions of the Board of Trustees are to manage the finances, to possess and care for the property, to procure legislation, to appoint instructors and other officers, and in general attend to such external matters as do not relate directly to instruction.

THE UNIVERSITY COUNCIL

The University Council consists of the Chancellor, the Trustees, the members of the Senate, and an equal number of members elected by the Graduates from their own members.

The annual meeting of the Council is held on the Tuesday immediately preceding the spring Convocation.

The Functions of the Council are:

- (1) To elect the Chancellor, except when two or more candidates are nominated, in which case the election is by registered graduates.
- (2) To elect six trustees, two of whom shall retire annually.
- (3) To make by-laws governing the elections of (a) the Rector by the registered students, (b) seven trustees by the benefactors, (c) six trustees by the University Council, (d) six trustees by the graduates.
- (4) To discuss all questions relating to the University and its welfare.
- (5) To make representation of its views to the Senate or the Board of Trustees.
- (6) To decide on proposals for affiliation.
- (7) To arrange all matters pertaining to (a) its own meetings and business, (b) the meetings and proceedings of Convocation, (c) the installation of the Chancellor, (d) the fees for membership, registration and voting.

THE SENATE

The Senate consists of:

The Principal.

The Vice-Principal.

The Principal of Queen's Theological College.

The Dean of the Faculty of Arts.

The Dean of the Faculty of Applied Science.

The Dean of the Faculty of Medicine.

Three Professors elected by the Faculty of Arts.

Three Professors elected by the Faculty of Applied Science.

Three Professors elected by the Faculty of Medicine.

Two Professors elected by the Faculty of Queen's Theological College.

The Functions of the Senate are:

(1) To determine all matters of an academic character which concern the University as a whole.

(2) To consider and determine all courses of study leading to a degree, including conditions of Matriculation, on recommendation of the respective Faculty Boards; but the Senate shall not embody any changes without having previously presented these to the Faculty.

(3) To recommend to the Board of Trustees the establishment of any additional Faculty, Department, Chair, or Course of Instruction in the University.

(4) To be the medium of communication between the Alma Mater Society and the Governing Boards.

(5) To determine all regulations regarding the social functions of the students within the University, and regarding the University Library and University Reading Rooms.

(6) To publish the University Calendars.

(7) To conduct Examinations.

(8) To grant Degrees.

(9) To award University Scholarships, Medals, and Prizes.

(10) To enforce the Statutes, Rules, and Ordinances of the University.

(11) And generally to make such recommendations to the Governing Boards as may be deemed expedient for promoting the interests of the University.

THE FACULTY BOARDS

The Faculty Boards are constituted as follows:

For the Faculty of Arts and for the Faculty of Applied Science the Dean, Professors, Associate Professors, Assistant Professors, and Lecturers of each Faculty (in Arts, after one year's experience) have power to meet as separate boards, and to administer the affairs of each Faculty under such regulations as the Board of Trustees may prescribe.

For the Faculty of Medicine, the Dean, Professors, Associate Professors, and Assistant Professors have power to meet as a separate board, and to administer the affairs of the Faculty under such regulations as the Board of Trustees may prescribe.

The Principal and Vice-Principal are *ex-officio* members of each of the Faculty Boards.

The Functions of the Faculty Boards are:

(1) To recommend to the Senate courses of study leading to a degree, and the conditions of admission.

(2) To decide upon applications for admission or for change of course, subject to the regulations of the Senate.

(3) To submit to the Senate names for both ordinary and honorary degrees.

(4) To arrange the time-table for classes and to edit the Faculty Calendar, subject to the approval of the Senate.

(5) To control registration, and determine the amount of fees and manner of payment, subject to the regulations of the Senate and the approval of the Board of Trustees.

(6) To deal with class failures.

(7) To exercise academic supervision over students.

(8) To make such recommendations to the Senate as may be deemed expedient for promoting the efficiency of the University.

(9) To award Faculty Scholarships, Medals, and Prizes.

(10) To appoint within the limits of the funds made available by the Trustees such sessional assistants, fellows, tutors, and demonstrators as shall be needed to give instruction in the subjects taught by the Faculty.

(11) To pass such regulations and by-laws as may be necessary for the exercise of the functions of the Faculty.

OFFICERS OF ADMINISTRATION

CHANCELLOR

JAMES RICHARDSON, B.A., LL.D.

PRINCIPAL AND VICE-CHANCELLOR

RECTOR

RIGHT HONOURABLE R. B. BENNETT, P.C., LL.D.

VICE-PRINCIPAL AND TREASURER

W. E. MCNEILL, M.A., Ph.D., D.C.L.

REGISTRAR

JEAN I. ROYCE, B.A.

THE BOARD OF TRUSTEES

Chairman

J. M. MACDONNELL, M.C., M.A.

Secretary

W. E. MCNEILL, M.A., Ph.D., D.C.L.

Ex-officio Members

JAMES A. RICHARDSON, B.A., LL.D.	Chancellor
RT. HON. R. B. BENNETT, P.C., LL.D.	Rector

Retire 1936

REV. G. A. BROWN, M.A., B.D., D.D. ⁵	Kingston, Ont.
R. CRAWFORD, B.A. ⁴	Kingston, Ont.
SENATOR A. C. HARDY, B.A., LL.B., P.C., K.C. ⁶	Brockville, Ont.
SENATOR H. H. HORSEY, B.A. ¹	Ottawa, Ont.
DENNIS JORDAN, B.A., M.D., C.M. ⁶	Toronto, Ont.
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Retire 1939

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JACKSON BOOTH, ESQ. ²	Ottawa, Ont.
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¹Elected by the University Council for three years.

²Elected by the Benefactors for four years.

³Elected by the Graduates for three years.

⁴Elected by the Board of Trustees to represent the Faculty of Applied Science for three years.

⁵Elected by the Faculty of Queen's Theological College for one year.

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T. F. SUTHERLAND, B.Sc.	Toronto, Ont.

Retire 1939

R. W. ANGLIN, M.A.	Toronto, Ont.
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Retire 1940

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Retire 1941

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Ottawa.
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 Paris,
Fellow in French,
 207 William Street.
- J. BEWS,
Physical Instructor for Men,
 College Street.
- ETHELWYNNE MURPHY, B.A. (Queen's),
Physical Instructress for Women,
 Queen's University.

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TUTORS IN HISTORY: J. G. Brown, M.A., H. S. Ferns, B.A.(Man.), G. S. Watts, M.A.

TUTORS IN MATHEMATICS: E. Galbraith, L. Lucas.

TUTORS IN PHILOSOPHY: Mrs. Gregory Vlastos, B.A. (Vassar), T. A. Goudge, W. H. D. Vernon.

TUTOR IN PHYSICS: R. H. Hay.

TUTORS IN CHEMISTRY: Dorel Smith, C. A. Alves, H. C. Beachell, J. Cannon, K. Clendenning, H. K. Coulthart, R. P. Graham, A. Macalister, G. W. Motherwell, A. G. Nickle, B. VanOrder.

TUTORS IN BIOLOGY: Isabel Hope, J. M. Corkill, B.A., F. W. Fleming, B. N. Smallman.

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JAMES MILLER, KNOX, ALEXANDER AND SHAW

Curators of the Museum

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Dean of Women

M. WINNIFRED KYDD, C.B.E., M.A. (McGill)

Director of the Summer School

PROFESSOR MACCLEMENT, M.A., D.Sc.

Secretary of the General Alumni Association and Manager of the Employment Bureau

GORDON J. SMITH, B.A., B.Sc. (Queen's)

Medical Officer

W. FORD CONNELL, M.D. (Queen's), M.R.C.P. (Lond.)

Superintendent of Buildings

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Secretary-Treasurer Athletic Board of Control

CHARLES HICKS

EQUIPMENT AND SPECIAL FACILITIES

THE LIBRARY

The Douglas Library building provides one large reading room, three smaller ones, a number of conference rooms, exhibition rooms and offices for the library and administrative staff.

In the main reading room will be found a collection of some 5,000 volumes of general reference works on open shelves. The general library includes about 160,000 volumes as well as many original manuscripts and prints.

The system of classification used is that of the Library of Congress.

Seven hundred and fifty journals and other serials are currently received.

In addition to the general library there are departmental libraries for physics; chemistry; mining and metallurgy; geology and mineralogy; civil, mechanical and electrical engineering.

The library of the Medical Faculty, together with a biological library, is separately housed in the old Arts building.

The Lorne Pierce Collection of Canadian Literature is very rich in first editions, original manuscripts and rare Canadiana.

The Shortt-Haydon Collection of portraits and views relating to Canada is one of the finest collections of its kind.

THE MUSEUMS

The Miller Memorial Museum, named in memory of the late Willet G. Miller, formerly Provincial Geologist of Ontario, has recently been erected for the Departments of Geology and Mineralogy. The main floor is entirely devoted to museum purposes and contains among other things an excellent collection of economic minerals used in industrial processes; a collection of at least a thousand mounted individual crystals, large collections illustrating the systematic classification of minerals and rocks; another illustrating the ores found particularly in Canadian mines, a stratigraphic assembly of rocks and a paleontological collection illustrating the geologic life record.

An Ethnological collection of weapons, utensils, dresses and ornaments is also housed in the east wing of the museum.

The Biological Museum, in the Old Arts Building, has a large Botanical collection illustrating fully the flora of North America, Europe, Asia, South Africa, and Australia; a Zoological collection representing the Canadian fauna by a large number of prepared specimens of mammals, birds, reptiles, fishes, insects, and mollusca.

THE LABORATORIES

The Biological Laboratories are on the main floor and in the basement of the Old Arts Building. There is a large laboratory for General Botany, one for General Zoology, and one for Medical Biology, as well as smaller laboratories for Plant Physiology and Advanced Botany. Laboratories are available also for research in Plant Physiology, Cytology, and the growth of populations. A very carefully arranged and classified collection of representative invertebrate animals as well as a small but growing entomological collection are available for study. These supplement the Herbarium and the collection of larger animals in the Museum.

The Chemical Laboratories are in Gordon Hall. On the fourth floor are the laboratories of Medical Organic, Biochemistry, and Water Analysis. On the third floor are two laboratories for General Chemistry, and a laboratory for Electro-chemistry and Colloid Chemistry. On the second or main floor are two laboratories for Quantitative Analysis, two for Organic Chemistry, and one for Industrial Chemistry. On the first or basement floor are three laboratories for Qualitative Analysis, and two for Physical Chemistry. Besides these there are a number of small separate laboratories for research work.

The Physics Laboratories occupy the major part of Ontario Hall. The basement contains the large elementary laboratory, the liquid air room, numerous research laboratories and the research workshop. The main floor is given over to undergraduate lecture and laboratory rooms. The second floor has two large lecture rooms, laboratory room for advanced undergraduate classes and for research. The attic is used for workshop and storage purposes.

The Geological and Mineralogical Laboratories are in Miller Hall. In the basement is a laboratory for the preparation of rock sections and for photography and an X-ray laboratory equipped with a Hilger X-ray spectrograph. On the second floor a laboratory occupying the west wing is for elementary classes in Geology. Along the north side of the building is a map room and the petrographical laboratory. On the south side a large draughting room is used by senior students for the preparation of maps and sections required in field courses. On the third floor at the west end is a large

laboratory for blowpipe analysis, a dark room equipped with a two circle goniometer, monochromator and Abbé refractometer. The east wing is a laboratory for post-graduate students, a dark room for photography, a chemical laboratory with space for twelve students, a grinding room for preparation of polished surfaces and an adjoining optical laboratory for petrographic and mineralographic work. Smaller laboratories for research work are equipped with a Hilger E316 spectrograph, a Hallimond Electromagnetic concentrator and facilities for examination of ores by polarized light.

THE OBSERVATORY

The Observatory has a transit room, a computing room, and an equatorial room with revolving dome. The equatorial telescope has a six-inch objective, declination and right ascension circles, and a driving clock. The transit has a three and a half inch objective. The further equipment consists chiefly of a striding level, a chronograph, a mean time clock, and a sidereal time clock.

FACILITIES FOR FIELD WORK

Geology and Mineralogy. In the vicinity of Kingston a greater variety of economic minerals and metalliferous ores is mined than in any similar area in Canada. Through the kindness of the managers the various mines may be visited by the Geology and Mineralogy classes, and students may thus obtain valuable information concerning field conditions.

Botany and Zoology. Exceptionally good facilities for field study are provided in the vicinity of Kingston by the great diversity of land surfaces and bodies of water. A wide range of plant and animal associations are within easy reach of the University.

FACILITIES FOR ATHLETICS

The University provides ample facilities for athletics. A new gymnasium, one of the finest in Canada, was built during the summer of 1930. In the University Grounds is a large covered skating rink with artificial ice. Adjoining the University is the football field, with the George Richardson Memorial Stadium given by Dr. James Richardson, now Chancellor of the University, in memory of his brother, Captain George Richardson, a Queen's graduate and a former athlete, who was killed in the Great War. There is room and equipment for all students who wish to take part in football, hockey, basketball, tennis, track athletics, swimming, boxing, fencing, or wrestling.

GENERAL INFORMATION

DEGREES

By the Royal Charter granted to Queen's College, it is "willed, ordained and granted, that the said College shall be deemed and taken to be an University, and that the students in the said College shall have liberty and faculty of taking the degree of Bachelor, Master, and Doctor in the several Arts and Faculties."

The degrees at present conferred under the statutes of the University are as follows:

I.—HONORARY DEGREES

Doctor of Divinity, D.D.; Doctor of Laws, LL.D.

II.—DEGREES BY EXAMINATION

1.—In Arts

Bachelor of Arts, B.A.; Bachelor of Commerce, B.Com.; Master of Arts, M.A.; Master of Commerce, M.Com.; Doctor of Philosophy, Ph.D.

2.—In Theology

Bachelor of Divinity, B.D.

3.—In Medicine

Doctor of Medicine, M.D.; Master of Surgery, C.M.; Diploma of Public Health, D.P.H.; Doctor of Science, D.Sc.

4.—In Applied Science

Bachelor of Science, B.Sc.; Master of Science, M.Sc.

HOODS

Each Degree has its distinctive hood, as follows:

B.A.—Black, bordered with red silk.

B.Com.—Black, bordered with green silk.

M.A.—Black, lined with scarlet silk, bordered with scarlet silk.

M.Com.—Black, lined with green silk, bordered with green silk.

B.D.—White silk, bordered with crimson plush.

M.D. and C.M.—Scarlet silk, bordered with white silk.

B.Sc.—Black, bordered with yellow (old gold) silk.

M.Sc.—Black, lined with yellow silk, bordered with yellow silk.

D.Sc.—Yellow silk, bordered with black.

D.D.—Purple silk, lined with white silk, bordered with white.

LL.D.—Black silk, lined with blue silk, bordered with blue.

Ph.D.—Black silk, lined with purple, bordered with white.

COUNCIL OF LEGAL EDUCATION OF GREAT BRITAIN

Queen's University has been approved by the Council of Legal Education of Great Britain and her degree examinations now qualify students for admission at any one of the four Inns of Court. Regulations for entry at any one of the Inns may be seen at the office of the Principal.

INFORMATION FOR WOMEN STUDENTS

The Dean of Women is ready to give women students information and advice regarding any matter pertaining to their life at the University. She may be consulted about the planning of courses and should be notified concerning cases of illness.

The University Residences

Rooming and Boarding Houses

All first year women students under twenty-five and not resident in the city of Kingston are required to live in Ban Righ Hall or in one of its annexes.

(For the purpose of this regulation students who have credit for five or more classes at the University, taken either intramurally or extramurally, will not be considered as belonging to the first year.)

All other women students not resident in the city of Kingston are required to live either in one of the university residences or in a supervised rooming or boarding house.

The above regulations apply to the winter session only. During the summer the university residences are open for the benefit of all women students attending the Summer School and of students taking physical culture and Upper School courses.

Particular attention is called to the regulation that women students are under no circumstances permitted to lodge in houses in which any man other than the husband or son of the lodging-house keeper is living or lodging. This applies to the Summer School as well as to the regular winter session.

Application forms for admission to the university residences, full information concerning the residences, the rates charged and rules in force, lists of supervised rooming and boarding houses for the winter session, with information concerning the regulations governing them, and lists of recommended rooming and boarding houses for the Summer School can all be obtained from the office of the Dean of Women.

Academic Dress

During the winter session women students are expected to wear academic gowns at lectures. These gowns may be ordered in Kingston after the opening of the session or they may be made from patterns purchased through the Dean of Women's office.

Gymnasium Costume

The gymnasium costume worn by women students is a regulation white shirtwaist and yellow shorts. White Badminton shoes and socks are worn with the suit.

Any bathing suit may be worn in the University swimming pool.

EXPENSES

At the present time the average cost of a student's board is from \$4.50 to \$5.50 a week, and for a room from \$2.00 to \$3.00 a week.

Lists of Boarding Houses for men students may be obtained from the Registrar. Meals may be obtained at the cafeteria in the Students' Union.

See FEES for other expenses.

PHYSICAL WELFARE OF STUDENTS

Every student is required upon registration to contribute \$4 towards a health insurance fund. In return the University provides the free services of a medical officer and assumes the cost of a limited stay in hospital. Details of the plan are given in a printed leaflet which may be had on request.

All students in their first year are required to take physical training for two hours a week, unless excused on account of military training with the Officers' Training Corps. They are examined by the University physician, who prescribes proper exercises to correct physical defects.

VACCINATION

Every student registering for the first time must submit evidence of successful vaccination.

ATTENDANCE AT CHURCH

All students are expected to attend a church of the denomination to which they belong.

During the session university sermons for students are given by preachers specially engaged by the University

STUDENT SELF-GOVERNMENT

Queen's was the first University in Canada to introduce student self-government. All students are members of the Alma Mater Society, the chief instrument of student government, and are expected to share in its duties and responsibilities.

FRATERNITIES

By resolution of Senate no student registered with the University may form or become a member of any chapter of any externally-affiliated fraternity or sorority at or near Kingston.

THE CANADIAN OFFICERS TRAINING CORPS

The Queen's University Contingent of the C.O.T.C., formed at the outbreak of the Great War under Lieut.-Col. A. B. Cunningham, was organized as a Unit of the Militia in February, 1915. Reorganized after the war by Col. A. Macphail, C.M.G., D.S.O., it is now commanded by Lieut.-Col. D. M. Jemmett, and consists of three companies, "A" Coy. (Arts), "B" Coy. (Medicine), and "C" Coy. (Science).

The training, after the recruit year, prepares for examinations. "A" certificate qualifies for the rank of Lieutenant, and "B" certificate for that of Captain.

Commissions in the Permanent Force are offered from time to time to qualified members of the C.O.T.C. Students who enrol in their first year, complete the year's training, and are returned as fully efficient, are excused from Physical Training.

EMPLOYMENT SERVICE

An Employment Service has been in successful operation at the University for several years. It is under the jurisdiction of the Service Control Committee of the Engineering Society and administered by the Secretary of the General Alumni Association. It is financed by the Engineering Society and the University. The objects of the Service are to assist graduates in all Faculties to secure suitable positions, and to help students to obtain work during vacation periods.

Communications should be addressed: Manager, Employment Service, Queen's University.

REGISTRATION

All students are required at the beginning of each session to have their names entered upon the University Register.

Intramural students must register *in person*, paying full fees for the session. Those registering before the opening of the session will be charged the regular fee, but those registering on or after the first day of session will be charged an extra fee of \$3. In addition, those who have not previously obtained permission to defer registration must pay a special late fee of \$1 a day from September 24 to October 3. No student may register after October 3 unless he has obtained special permission before the opening of session.

For Extramural registration see REGULATIONS REGARDING EXTRAMURAL WORK.

ADMISSION TO THE FACULTY OF ARTS

1. Candidates desiring to enter the Faculty of Arts should make application during the summer on forms supplied by the Registrar.

The application should be accompanied by matriculation or other certificates.* These will be returned when the candidate's standing is determined.

I—ADMISSION BY MATRICULATION

2. Matriculation examinations are conducted for the Universities of Ontario by the University Matriculation Board. Details regarding these examinations may be found in a separate publication entitled *ENTRANCE REQUIREMENTS*. This booklet contains also a list of the Entrance and Matriculation Scholarships and the conditions of award.

3. The Matriculation examinations are of two grades, elementary and advanced, called respectively *Pass* and *Honour* Matriculation.

A. Pass Matriculation

4. The subjects of Pass Matriculation are as follows: *Latin, English, Canadian and Ancient History* (with Music as an option for Ancient History), *Mathematics*, and any two of the following: *Greek, German, French, Spanish or Italian, Experimental Science* (Physics and Chemistry) or *Agriculture*.

Two papers are set in each of the six subjects and the pass standard is fifty per cent. in each paper.

5. Candidates who present a certificate of Pass Matriculation will be admitted to the first year in Arts and may expect to graduate in four years if on a Pass Course, five years if working towards an Honours degree.

B. Honour Matriculation

6. Honour Matriculation examinations are held in the following subjects:

Latin (two papers), *English* (two papers), *Modern History* (one paper), *Mathematics* (Algebra, Geometry, Trigonometry, and Problems, one paper in each), *Greek* (two papers), *German* (two papers), *French*

*Candidates holding certificates from the Department of Education of Ontario should send their certificates to the Registrar, Queen's University, in order to have standing allowed. Candidates holding certificates from Departments of Education outside of Ontario should write to the Departments concerned asking that their marks be sent to the Registrar who will then advise regarding the standing allowed.

(two papers), *Spanish* (two papers), *Physics* (one paper), *Chemistry* (one paper), *Biology* (one paper in each of Zoology and Botany).

The pass standard is fifty per cent. in each paper.

7. Candidates presenting certificates covering four or five subjects of Honour Matriculation may be granted *pro tanto* credit in the corresponding courses of the first year, but not in more than five. Those presenting certificates in less than four will be granted credit only in subjects in which their standing is class I.

8. Candidates who have Honour Matriculation standing in a science (Physics, Chemistry, or Biology) and wish to proceed to further work in the subject may do so according to the following regulations:

(i) If they have credit standing on Honour Matriculation they must repeat in full the corresponding course at the University and pass the final examination before they can proceed to the next course in the subject.

(ii) If their standing on Honour Matriculation is Class III they must repeat in full the corresponding course at the University but they may take along with it the next course as one of their five regular classes.

(iii) If their standing on Honour Matriculation is Class II they must pass the final examination in the corresponding course at the University, and unless they can present evidence of having satisfactorily completed laboratory work in connection with the course they must repeat the laboratory work at the University in whole or part as the department concerned may decide. This work may be taken along with course 2 in the subject in question.

(iv) If their standing on Honour Matriculation is Class I, they may proceed without conditions.

(v) Students taking further work in Biology must register in the first year in that branch (Botany or Zoology) in which they plan to specialize.

9. Mathematics 1 will be granted on any two papers of Honour Matriculation except in the case of candidates who wish to proceed to higher work in this subject. Such candidates may do so under the following conditions:

(i) If they have made first or second class standing in two papers of Honour Matriculation they may register in Mathematics 2, carrying at the same time that part of Mathematics 1 not included in their Honour Matriculation work.

(ii) If they have made third class or credit standing in two papers of Honour Matriculation they must repeat Mathematics 1 in full though they may take along with the first year course Mathematics 2 as one of their five regular classes.

10. Candidates with the First Class Interim Certificate who have successfully qualified for the Permanent First Class Certificate by attending a second year at an Ontario Normal School will be allowed towards an Arts degree a second year course in each of English and History.

11. Candidates with Honour Matriculation in five subjects may expect to graduate in three years if on a Pass Course.

Students who desire credit towards a degree on work done outside of the University must pay a fee of ten dollars for any *pro tanto* credit granted.

12. No allowance will be given for credits on Honour Matriculation or similar non-academic examinations if such credits are earned subsequent to a candidate's first registration at Queen's University.

13. Candidates preparing for admission to a Course for B.A. with Honours will receive the same allowance in first year on Honour Matriculation standing as if they were on a Pass Course, since the Honours work does not begin in first year. "First Year" here means one year following Pass Matriculation on the five-year Course for the Honours B.A. degree.

14. Candidates for admission to Honours Courses who are writing on Honour Matriculation should write on all the papers of the two subjects which will be the Major and Minor for the degree of B.A. and three others chosen from the six compulsory courses on the degree Course they wish to follow. Under every subject in the departmental regulations in this calendar will be found a complete outline of the courses for degree if that subject is to be the Major and under clause (d) will be found the compulsory classes for that particular Course.

II—ADMISSION BY EQUIVALENT EXAMINATION

A. Examinations Equivalent to Pass Matriculation

15. The following certificates are accepted for Pass Matriculation in the subjects which they cover provided that 50% has been made in each paper.

Alberta	Third Year High School.
British Columbia	Junior Matriculation (Grade XII).
Manitoba	Grade XI.
New Brunswick	Junior Matriculation.
Newfoundland	Associate (Junior).
Nova Scotia	Grade XI (average 60, minimum 50).
Ontario	Middle School.

Prince Edward Island	Honour Diploma or First Class License or Second Year Certificate from Prince of Wales College.
	{ McGill Junior Matriculation.
Quebec	{ Quebec High School Leaving.
Saskatchewan.....	Grade XI.

B. Examinations Equivalent to Honour Matriculation

16. The following certificates are accepted for Honour Matriculation in the subjects in which at least fifty per cent. has been made in each paper.

Alberta	Fourth Year High School.
British Columbia	Senior Matriculation (Grade XIII).
Manitoba	First Class.
New Brunswick	Grammar School.
Newfoundland.....	Associate Grade.
Nova Scotia	Grade XII.
Ontario	Upper School.
Prince Edward Island	Honour Diploma of Third Year, Prince of Wales College.
Quebec	McGill Senior Matriculation.
Saskatchewan	Grade XII.

III—ADMISSION TO ADVANCED STANDING

17. Students applying for admission to advanced standing with allowance on credits at another University must have an official certificate of standing forwarded to the Registrar for consideration with a statement of honourable dismissal. They will be given equivalent standing but must comply with all regulations of Queen's University governing the Course they wish to complete.

No credits obtained at another institution will be accepted for any of the last five classes offered by a candidate for degree at Queen's.

IV—ADMISSION BY SPECIAL REGULATION

18. An unmatriculated student who presents a certificate showing that he is over the age of twenty-one, may be admitted if he satisfies the Board of Studies that he can profitably undertake university work.

A candidate admitted under this Regulation must remove his entrance condition either by obtaining credit in course 1 of the subjects of Matriculation which he lacks or by passing the regular Provincial Matriculation examinations in these subjects within two years of entrance.

REGULATIONS REGARDING EXTRAMURAL WORK

All inquiries regarding regulations should be addressed to the Registrar.

In order to meet the needs of students who are unable to do all their work in residence, of teachers in actual service who wish to improve their professional qualifications in certain subjects, and of those persons in general who, though unable to attend the regular classes, are yet desirous of studying under competent direction, the University conducts a system of extramural instruction. This work is as nearly as possible identical with that taken up by the intramural students and the same examinations are set for all. Candidates who fulfil the requirements of residence and otherwise comply with the conditions stated below may qualify for the various degrees to which their Courses lead.

For details of the work offered for the summer of 1936 and winter 1936-37 see page 47.

Conditions of Admission to Extramural Work

1. In order to register for the first time extramural students must be twenty-one years of age and residents of Canada. Students residing outside of Canada, however, who have attended the University for one session or who have taken work extramurally for one session are allowed to complete their Course.

2. Fully matriculated students under twenty-one years of age may be allowed to register on satisfying the Faculty that it is impossible for them to attend the University until a later date.

Students over twenty-one years of age who are not candidates for degree or diploma may register without matriculation standing in any course in which they desire to improve their scholarship, provided that they can satisfy the Board of Studies of their ability to proceed with the work desired.

3. Except with the permission of the Board of Studies, no students are permitted to take work at Queen's in the same year as they are taking work at any other educational institution or writing on any outside examination other than Pass Matriculation.

4. Intramural students may become extramural students only by special permission of the Faculty. Students registered intramurally in the winter session will not be allowed to continue their courses extramurally in the following summer, unless by special permission they have been allowed to postpone one or two courses until the summer. In

such cases, however, they must attend the Summer School. But students may, in preparation for the September supplemental examinations, register for instruction in courses in which they have failed in the sessional examinations of the previous January or April, if these courses are offered extramurally in the summer.

Registration in Extramural Courses

5. Application for registration must be made on forms supplied by the Registrar, and must satisfy the conditions stated in section 6. They must reach the University by the dates mentioned in section 7; and they must be accompanied by the fees specified in section 8.

6. (a) Extramural students may not register for more than four courses in the academic year. They may register in the winter (September-April) for as many as two courses or four half-courses, and in the summer* (April-September) for two courses or three half-courses.

(b) The courses selected in each year are subject to the approval of the Board of Studies and, in the case of candidates for degrees, must conform to the regulations for concentration, distribution, and sequence of work.

(c) Before registering students should consult the time-table of lectures, as they may not register for either winter or summer work in two classes which meet at the same hour. The summer time-table is given in the Announcement of Summer School and Extramural Work.

7. (a) Extramural students should register two or three weeks before the session opens in order that they may receive the preliminary instructions and provide themselves with books in time to start work promptly. They will be allowed to register up to September 10 for the winter or April 10 for the summer at the regular fee, and up to September 18 or April 17 on payment of an extra fee of \$3. Only under exceptional circumstances and by special permission of the Faculty will registration be accepted after these dates.

(b) Extramural students do not receive the examination returns before the last date of registration but should send fees to the Registrar within the required dates, stating the classes in which they wish to register if successful in their examinations. Necessary changes may be made later.

*The Calendar is issued in the spring but is not in force until the following autumn. The work of advanced whole courses, however, given at Summer School, will be based on the prescription in the calendar for the next session, since these courses must be completed during the following winter.

8. The fees payable upon application for registration are as follows:

(a) *Registration.* A registration fee of \$10 must be paid once in each year, and an extra fee of \$3 for late registration as provided in section 7 (a).

(b) *Tutorial.* The tutorial fee is \$10 for each whole course and \$5 for each half-course (indicated in departmental prescriptions by the letter *a* or *b* after the number). If the required amount of work in a course is not completed in the session, winter or summer, in which it is begun, the tutorial fee must be paid again, and the full work of the course sent in. See also section 22.

(c) *Pro Tanto.* Students desiring to have courses credited on work done elsewhere must pay a fee of \$10 at the time of their first registration.

Minimum Residence Requirements

The University does not undertake to make it possible for a student to get a degree by satisfying merely the minimum residence requirements given below, since in some subjects only a limited amount of instruction can be given extramurally or in the Summer School. In the Sciences, for example, all the laboratory work must be done at the University and a student specializing in these subjects may find it necessary to spend two or three years in residence.

9. Candidates for a degree must take at least nine courses in attendance at the University, either during regular winter sessions or at the Summer School. Candidates for an Honours degree must attend during at least one regular winter session. In most cases an Honours Course will require much more than this minimum time. Examinations must be passed after each session's work.

The Department of Education is willing to accept attendance at four sessions of the Summer School as covering attendance requirements for the Inspectors' Course.

Manner of Conducting Extramural Classes

(See also section 22)

10. The method of giving extramural instruction necessarily varies with the subject. Detailed information is contained in the instruction sheets provided from time to time. These specify the prescribed reading, assign exercises and essays to be written, and in some cases give

the substance of intramural lectures. The first instalment of work is sent to students as soon as they register. The date of each essay or exercise coming in and of each criticism or fresh piece of work going out is recorded at the Registrar's Office. Each essay or exercise is examined and returned to the writer with criticisms and suggestions.

Students should address their work and all enquiries regarding their work to The Director of Extramural Work, Queen's University, Kingston, Ontario.

Regularity of Work

11. All exercises must be sent in by the dates specified or they will be returned unmarked and without credit.

Transference from Extramural to Intramural Classes

12. Extramural students may become intramural students during the winter session at any time after December 1, *in those courses in which they have satisfactorily completed the work prescribed up to the date of transferring*. Fees already paid will be applied on intramural charges.

13. Students who transfer to intramural work before January may add enough half-courses to give them five classes in the second term, if such half-courses are available and the prerequisite work has been done.

Library Facilities for Extramural Students

14. Extramural students are expected to buy all text-books prescribed. They should also make generous provision for the purchase of other books bearing on their work, as the Library cannot undertake to provide enough duplicates to serve all the needs of students not in residence.

15. Three books may be borrowed at one time, provided that no two relate to the same piece of work. Unless a special arrangement is made, a book may be kept only two weeks from the date on which it is received.

16. Extramural students must send to the Librarian a deposit of \$2 for the use of one book at a time, \$4 for two books and \$5 for three. Books may be exchanged as often as the borrower wishes; and when all are returned, the deposit, less the amount spent for postage, will be repaid on request. No fee is charged for the use of the Library.

17. All communications concerning books and deposits must be addressed to The Librarian, Queen's University, Kingston, Ontario.

Regulations Regarding Examinations

Intramural and extramural examinations are the same in all subjects and are held at the same time. It is impossible, therefore, to modify the examination schedule to suit the personal convenience of students.

Examinations are held in January, April, and September, as follows:-

(a) Examinations in half-courses of the first term are held in January (see page 6).

(b) Examinations in all whole courses and in half-courses of the second term are held at the end of April. Examinations in Pass courses (numbered under 10) and in such Honours courses as may be offered in the summer, may be postponed till the autumn, but such postponement will lessen the amount of new work which may be completed in September.

(c) Ordinarily an extramural student may not write in September on more than two courses or three half-courses. He may, however, write on three courses, if examinations in one or more have been postponed from April.

19. Applications for examination in the particular subjects upon which a student proposes to write, accompanied by the proper fees, must reach the Registrar's office by November 10 for the January examinations, by February 15 for the April examinations, and by July 15 for the September examinations. The fees are \$3.00 for each half-course examination and \$6.00 for each whole course examination, with an additional charge of \$3.00 for late application, if accepted.

20. If the Registrar receives notice, at least ten days before the beginning of examinations, that a candidate will not write on a subject for which application has been made, the fee will be credited after the deduction of an administrative charge of two dollars.

21. Students will not be admitted to examination in any subject in which they have not fulfilled the requirements as to date of registration (see section 7) and regularity of work (see section 11). Candidates are expected to send in all the essays and exercises at the dates specified, and the grade given on a particular course will be determined by the amount and quality of the work done. No candidate will be admitted to examination who has done less than seven-eighths of the prescribed work. The last of the written work should reach the University at least two weeks before examinations begin.

22. Students who in any session do not complete the required work in a course, must register again, pay all the fees and do all the exercises.

23a. An extramural student who fails in a subject but makes at least thirty per cent. may write one supplemental without repeating the work of the course. This supplemental must be written at the next examination period and may not be postponed. Supplemental examinations are held in September in all pass courses and in the first course in Honours.

23b. Extramural students who make less than thirty per cent. in the examination on any course must repeat the tutorial work in that course.

24. Students who, having completed the required work in a given subject wish in some subsequent academic year merely to take the examination, must pay the registration fee of \$10.00 as well as the examination fee specified in Section 19. The registration fee is payable at the beginning of the session.

Students are warned that they postpone examinations at their own risk, as no special papers will be set, even if courses are discontinued or radically changed. Candidates who postpone an examination for more than two years, must repeat the tutorial work.

25. Extramural students in any of the Modern Languages must satisfy the Department concerned as to their oral qualifications. When an oral examination is necessary, it must be taken at the University. Students attending the Summer School will be given an opportunity of completing the oral work in those languages in which courses are offered at the Summer School.

26. Practical examinations in Science must be taken at the University.

27. Examination centres have been established at most of the larger cities and towns throughout Canada and a list of such centres is sent to all extramural students a month in advance of the examinations. Consideration will be given to an application to establish a new centre. Such application, accompanied by the special fee of \$10, must be made by November 10 for January examinations, by February 15 for April examinations, and by July 15 for September examinations.

Determination of Standing

28. See sections 29 and 30 of GENERAL REGULATIONS on page 72.

Fees for Extramural Students

29. A full statement regarding fees may be found under FEES.

30. Extramural students who enter as intramural students during the winter session will have their extramural fees applied on intramural charges. (See section 12.)

31. *In no case will refunds be made.* In case of sickness, however, but under no other conditions, an application to have fees *carried over* will be considered if it is made within one month of registration and is accompanied by a doctor's certificate.

32. Cheques or drafts on any place where the Bank of Montreal has a branch will be received at par. In other cases 15 cents per \$100 should be added to cover bank charges. Remittances should be made by Post Office or Express order, by cheque, or registered letter.

Text-books

33. Texts may be obtained from the Technical Supplies Store, Queen's University Grounds, and Messrs. Uglow & Co., Kingston.

EXTRAMURAL AND SUMMER SCHOOL WORK

On the following page a Table shows all the courses offered through Extramural and Summer School instruction in the summer of 1936 and the winter of 1936-37.

An explanation of this Table, together with the more important regulations, is given below in condensed form.

I. SUMMER SCHOOL COMPULSORY

See Table under this heading. These courses are open only to those who attend the Summer School.

Registration required before April 10, with fee of \$10 if not paid in previous autumn.

No extramural tuition fee, except in courses 1 and 2 of the Sciences, in English 3, Philosophy 12 and Astronomy 1, in which case there is payable on registration a tutorial fee of \$10 for each course, of which \$5 will be credited towards Summer School fees.

Preliminary work assigned on registration. but no extramural exercises except in courses 1 and 2 of the Sciences, and in English 3, Philosophy 12 and Astronomy 1.

EXTRAMURAL AND SUMMER SCHOOL WORK— SUMMER 1936, WINTER 1936-37

	Summer School compulsory	Summer Extramural: Summer School optional	Summer Extramural only	Summer School Comp. & Winter Extramural	Winter Extramural
Latin		1, 2		11, 15	1, 2
*Greek		A, 1 (or 2)		11 (or 21)	A, 1, 2
Greek&Rom.Hist.			4		4
*German		A, 1, 2		12	A, 1, 2, 10
Spanish			A, 1, 2, 6, 10		A, 1, 2, 6, 10
French	11a, 10a	1, 2		3	1, 2
English	3, 10, 14a, 14b	2	1		1, 2, 14a, 14b, 18 20
History	18a, 19b	3	1	12, 13, 16, 27	1, 3
Economics	27b	1, 4			1, 4
Politics			2		2
Commerce	60		63		63
Philosophy	12	1, 2			1, 2, 10, 20
Mathematics	10a, 11b, 14a, 16b	1, 2	3a, 7b		1, 2, 3a, 7b, 10a, 11b
Astronomy	1				
Physics	1, 2, 11, 12a, 13b				1, 2
Chemistry	1, 2, 12a, 13b, 16b				
Biology	1, 2, 11b, 12a, 16b 17a, 45				
Geology	1				
Mineralogy	1				

*Courses in Greek and German will be offered at Summer School only if a sufficient number of students apply. Students registering in these classes will be notified regarding the Summer School as soon as possible after April 10th.

Summer School attendance and work compulsory. Fee \$36.50, payable July 2.

Examinations in September; or in January for the first term work and in April for second term work. Fee \$6 for each full course; \$3 for each half-course, payable before July 15 or on November 10 or February 15, according as examinations are written in September, January, or April.

II. SUMMER EXTRAMURAL; SUMMER SCHOOL OPTIONAL

See Table under this heading. These courses are offered in the Summer by Extramural work alone, or by Extramural work up to July, and Summer School work thereafter.

Registration required before April 10; fee of \$10 if not paid in the previous autumn.

Tuition fee of \$10 for each course, payable on registration. If a student attends Summer School \$5 of his tuition fee for each course will be credited on his Summer School fees.

Extramural work and exercises.

Summer School work and exercises optional; if taken, the fee is \$36.50, less half tuition fee paid, payable July 2.

Examinations in September; fee of \$6 for each course; payable before July 15.

III. SUMMER EXTRAMURAL ONLY

See Table under this heading. These courses are offered in the Summer only through Extramural work. They are not given in the Summer School.

Registration required before April 10, with fee of \$10 if not paid in previous autumn.

Tuition fee of \$10 for each full course and \$5 for each half-course, payable on registration.

Extramural work and exercises.

Examinations in September; fee \$6 for each full course; \$3 for each half-course, payable before July 15.

IV. SUMMER SCHOOL AND WINTER EXTRAMURAL

See Table under this heading. These courses are partly covered in the Summer School; the rest of the work is done extramurally in the winter.

For the purpose of determining the maximum number of classes which a student may take at one time, each class offered in this way will count as a full course in either the summer or the winter session.

Registration before April 10, with fee of \$10 if not paid in previous autumn.

Tuition fee of \$10 for each course, payable on registration.

Preliminary work assigned on registration but no summer extramural exercises.

Summer School attendance and work compulsory. Fee, \$36.50, payable July 2.

Winter extramural work in following winter; without additional fee if registration fee was paid in spring; otherwise, \$10.

Examination in April. Fee \$6 for each course, payable before February 15.

V. WINTER EXTRAMURAL

See Table under this heading. These courses are offered in the winter through extramural work. Laboratory work in the Sciences and oral work in the Languages must be done later at the University.

Registration required before September 10 with fee of \$10 if not paid in previous spring.

Tuition fee of \$10 for each full course and \$5 for each half-course, payable on registration.

Extramural work and exercises.

Examinations in January and April; fee \$6 for each full course; \$3 for each half-course, payable before November 10 or February 15, according as examinations are written in January or April.

An extramural student may take four courses in a year with not more than two at any one time, summer or winter.

The registration fee of \$10 is payable once in the year; tutorial fees in September or April when beginning each course.

Since the exact requirements for Honours in any subject have now been definitely fixed, it has been found possible to arrange a definite scheme for extramural and Summer School work, as follows:

A. In subjects other than the sciences extramural and Summer School offerings will together cover all courses numbered under 10 in any subject, and three Honours courses of which one will be given each year and the other two alternately. Under this plan a student may cover three Honours courses in addition to Pass classes in any subject.

B. In Science Departments Pass courses will be given and also three advanced courses, half of each advanced course being given each year.

THE SUMMER SCHOOL

The twenty-seventh session of the Summer School begins at 8 a.m. on Friday, July 3, 1936, and closes at 5 p.m. on Friday, August 14.

Students are expected to register on Thursday, July 2. An extra fee of \$3 will be charged to those registering after July 2.

Courses will be given in Latin, Greek, German, French, English, History, Philosophy, Economics, Mathematics, Physics, Chemistry, Biology, Geology and Mineralogy. At the Summer School it is possible to cover about half the work done in the corresponding courses of the winter session.

The libraries and laboratories are available for use as in the winter session.

Ban Righ Hall, the women's residence, will be open during the summer and will accommodate one hundred students. Applications for rooms should be sent as early as possible to the Dean of Women.

Purpose of the Summer School

The Summer School offers the advantages of university study to those who can not attend the classes of the regular session.

It gives TEACHERS an opportunity to improve their scholarship in chosen lines of study, to observe methods of teaching, and to become acquainted with books and equipment not otherwise available.

It gives INTRAMURAL students who have lost standing through illness or other causes an opportunity of qualifying for the September supplemental examinations. Moreover, intramural students in their first or second years, who on account of ill health are unable to carry the required five courses, may, with the consent of the Board of Studies, take three or four courses in the winter and the rest extramurally in the summer, provided that they attend the Summer School.

It gives EXTRAMURAL students an opportunity to take the oral work required in the modern languages, to do in the laboratories the practical work required in the Science courses, and to satisfy by attendance at five sessions the minimum residence requirements for the degree of B.A. (See section 9 under REGULATIONS REGARDING EXTRAMURAL WORK).

Admission

No examination is required for admission to the Summer School. The classes are open to all who desire to improve their scholarship or

professional equipment. Candidates for a degree however, must satisfy matriculation requirements before being admitted to the University work and examinations, and must register for summer work in April. Furthermore, they must submit in May and June at least seven-eighths of the exercises and all the essays in those classes which require such work.

No student working for credit is allowed to register for more than two courses or three half-courses in the Summer School.

Examinations

No examinations are held in connection with the Summer School. Students desiring credit for their work should write at the regular University examinations in September. See sections 11, 18, 21, 22 under REGULATIONS REGARDING EXTRAMURAL WORK.

Fees

See FEES, page 52.

Further Information

The Announcement of the Summer School, containing full details concerning the work offered, is published each year in March, and is supplied on application.

All inquiries concerning the Summer School should be addressed to The Registrar, Queen's University, Kingston, Ontario.

FEES

Cheques tendered in payment of fees should be certified by the banks upon which they are drawn.

INTRAMURAL

Fees are payable each year upon registration.

A student is not registered and may not attend classes until he has paid the required fees.

Sessional Fee—including Registration, Tuition, Laboratory,
Library, Examinations\$125 00

Student Interests—including Health Insurance, Union, Faculty
Societies, Alma Mater, Journal, and Athletics (the athletic
fee which is part of student interests gives admission to
all home games except play-offs) 23 00

Candidates for the degree of Master of Arts will pay a sessional fee of \$85 with student interest fees amounting to \$23.00. If taking any laboratory work they will pay \$10 additional on sessional fees and a deposit of \$10.

The fees specified below are payable as they are incurred.

Laboratory Deposit:

Deposit is required for all courses in Science (unused portion will be refunded at the close of the session):

Without Chemistry	5 00
With one course in Chemistry	10 00
With two or more courses in Chemistry	20 00

Special Charges:

<i>Pro tanto</i> allowance of courses on work done elsewhere	10 00
Late registration (see also note, page 5), minimum	3 00
Change of courses after registration	2 00

Special fee for students in Commerce, third and fourth years	15 00
Late application—for examination or graduation	3 00
Special examinations given at the University when a regular examination is missed:	
One examination	5 00
Two or more examinations	10 00
Examinations at outside centres:	
Each whole course	6 00
Each half-course	3 00
Supplemental examinations:	
Each whole course	6 00
Each half-course	3 00

Special students not paying full fees:

Each course taken	35 00
(Student interests and Laboratory charges as above)	

Graduation:

Bachelor of Arts (in Course)	10 00
Bachelor of Arts <i>ad eundem gradum</i>	20 00
Bachelor of Commerce	10 00
Master of Arts	20 00
Master of Commerce	20 00
Doctor of Philosophy	50 00
Doctor of Science	50 00
Extra fee for degree <i>in absentia</i>	10 00

EXTRAMURAL

The fees specified under the first two heads are payable upon registration; the examination fees are payable at the dates given in section 19 of REGULATIONS REGARDING EXTRAMURAL WORK.

Registration:

Regular fee (covering twelve months)	\$10 00
Additional fee for late registration	3 00
Change of work after registration	2 00
<i>Pro tanto</i> allowance of courses on work done elsewhere	10 00

Tutorial:

Each course	10 00
Each half-course	5 00

Examination:

Each whole course, April or September	6 00
Each half-course, January, April, or September	3 00
Establishing new centre	10 00
Additional fee for late application	3 00

Graduation:

The same fees are charged as in the case of intramural students.

SUMMER SCHOOL

Full Summer School attendance (all students)	\$30 00
Athletics	3 00
Health Insurance	1 00
Summer School Association	2 25
Contribution to Grant Hall Fund	25
Laboratory deposit for Physics, Chemistry, Biology Geology or Mineralogy	5 00
Additional fee for late registration	3 00

SCHOLARSHIPS, PRIZES, AND MEDALS

I—MATRICULATION SCHOLARSHIPS

For a list of Matriculation Scholarships and the conditions of award see the publication entitled SCHOLARSHIPS AND PRIZES.

II—SCHOLARSHIPS IN ARTS

Scholarship awards will be governed by the following regulations:

1. Scholarships may be held only by students who are in attendance the year following the award.
2. Scholarships will not ordinarily be awarded to students who have obtained less than first class standing.

DEPARTMENT OF CLASSICS

Dorothy Chard Parker Memorial Prize in Classics

Value \$25. Founded by F. R. Parker, Esq., of Elmira, N.Y. Awarded to the student taking Honours in Latin and Greek (including Latin and French with Greek) who at the end of the first year in Honours has shown the greatest proficiency and promise in courses in the Department of Classics. No award will be made unless candidates are of sufficient merit.

W. W. Near Scholarships in Classics

Founded by the late W. W. Near, Esq., of Toronto.

1. Value \$100; awarded to the student who has the highest standing in Latin 2.
2. Value \$100; awarded to the student taking Honours in Classics *or* Latin and French *or* Latin and French with Greek, who has the highest standing at the end of his penultimate year. Chief consideration will be given to the student's record in courses of the Department of Classics. When two competitors are of nearly equal merit, preference will be given to the one who is taking some Greek.

MacLennan Scholarship in Greek

Value \$20. Founded by the late Hon. Jas. MacLennan, LL.D., Toronto, to encourage the study of Greek in the University. Awarded on the results of the April examinations in Greek 2 to the best student who is proceeding to the Honours Course in Greek. Not to be held by any student unless in actual attendance, and not to be awarded unless a sufficient degree of merit is shown.

DEPARTMENT OF SPANISH

W. W. Near Scholarships in Spanish

Founded by the late W. W. Near, Esq., of Toronto.

1. Value \$50: awarded to the student who has the highest standing in Spanish 1.
2. Value \$50: awarded to the student who has the highest standing in Spanish 10.

DEPARTMENT OF ENGLISH

Alexander Laird Scholarship in English 1

Value \$40. Founded in memory of the late Rev. Alexander Laird by his brothers and sisters and awarded annually to the student who makes the highest marks in English 1.

James C. Rogers Prize in English

A prize of the value of \$5 in books. Given by James C. Rogers, B.A., '94, to the student obtaining the highest standing in English 2.

The prize money will be paid only when it is contributed.

McIver Scholarships

Founded by J. B. McIver, formerly Treasurer of Queen's University.

1. Value \$50: awarded to the Honours student having the highest standing in English 2 and 10.
2. Value \$75: awarded to the student having the highest standing in English at the end of the first session after admission to Honours.
3. Value \$75: awarded to the student having the highest standing in English at the end of the second session after admission to Honours.

The '01 Fellowship in English

Value \$80. Established by the class which graduated in 1901. Awarded to a student who will act as tutor in English during the following session.

McIlquham Foundation in English

Value \$20. Founded by the parents of Mr. J. Max McIlquham, a student at Queen's University, 1912-15, who was killed on service overseas. Awarded for the best original poem, short story, or play.

DEPARTMENT OF HEBREW

Mary Fraser McLennan Prize in Hebrew

Value \$12. Founded in memory of Mary Fraser McLennan, of Lancaster, by her sons. Awarded to the student obtaining the highest standing in Hebrew 1, provided he intends to pursue a Theological Course in Queen's Theological College.

DEPARTMENT OF GERMAN

W. W. Near Scholarship in German

Founded by the late W. W. Near, Esq., of Toronto.

Value \$100: awarded to the student who obtains the highest standing in German 2 and 10 provided that these classes are taken concurrently.

DEPARTMENT OF FRENCH

W. W. Near Scholarships in French

Founded by the late W. W. Near, Esq., of Toronto.

1. Value \$100: awarded to the student who has the highest standing in French 2.

2. Value \$50: awarded to the student making the highest standing in French 10 and 11, provided that these courses are taken in the same year.

3. Value \$50: awarded to the student who has the highest standing in French 12 and 21, provided that these courses are taken in the same year.

Sir Wilfrid Laurier Memorial Scholarship

Value \$80. Founded by the Ontario Women's Liberal Association to perpetuate the memory of Sir Wilfrid Laurier. Awarded for proficiency in French conversation. Candidates must be Canadian-born English-speaking students, sons or daughters of a British subject by birth or naturalization, not of French parentage. The examination will be held in March of each year.

DEPARTMENT OF HISTORY

Andrew Haydon Scholarship in Colonial History

Value \$40. Founded by Senator Andrew Haydon, M.A., '93, LL.B. Awarded to the student with the highest standing in the Pass class in Colonial History (History 3).

Arts '09 Scholarship in History

Present value \$75. Founded by the class of 1909. Awarded annually to the Honours student in History with the highest standing in History courses taken in the penultimate year.

Arts '15 Scholarships

(The capital sum is not yet fully collected)

Present value \$26. Founded as a memorial by the class of 1915. Awarded annually in turn by the Departments of English, Mathematics, and History to the student with highest standing in two Honours courses

taken in the third year. Awarded in History in 1937, in English in 1938, in Mathematics in 1939.

Sir James Aikins Fellowship in Canadian History

This Fellowship of the annual value of \$400, was created through the generosity of Sir James Aikins, K.C., LL.D., of Winnipeg, who gave an amount creating an annual revenue of \$200. This was supplemented by an equal sum contributed by Queen's University. It will be awarded to the student obtaining the highest standing in the Honours courses in Canadian History, namely, History 20a, 21b, 28a, 29b, or such other courses as the Professor of Colonial and Canadian History shall determine.

The Fellowship will be tenable only by students who return to the University for further work in Canadian History and will be subject to the same conditions regarding tutorial work as the Arts Research Fellowships.

Western Ontario Graduates Fellowship in History

This Fellowship of the annual value of \$320 was created through the generous contribution by graduates of the University in western Ontario of an amount creating an annual revenue of \$160, which was supplemented by an equal sum contributed by Queen's University. It was established for the purpose of encouraging research in History and of providing junior assistants in the Department of History. It is awarded within the discretion of that Department to an advanced student of satisfactory academic standing in attendance at the University, and is subject to the same conditions regarding tutorial work as the Arts Research Fellowships.

DEPARTMENT OF POLITICAL AND ECONOMIC SCIENCE

W. M. O. Lothead Scholarship in Economics

Value \$40. Founded by W. M. O. Lothead, M.A., '98, Kitchener, Ont. The Scholarship will be awarded to the student taking the highest standing in the sessional examinations and classwork in Economics 1, provided he is in attendance in some faculty of the University during the following session.

Adam Shortt Scholarship in Political Science

Value \$40. Founded by G. W. Mason, Esq., K.C., in honour of Dr. Adam Shortt, formerly Professor of Economics. Awarded to the student taking the highest standing in Politics 2, provided he is in attendance during the following session and is registered in advanced work in the Department of Political and Economic Science.

W. W. Near Scholarships in Political and Economic Science

Founded by the late W. W. Near, Esq., of Toronto.

Value \$200: awarded by recommendation of the Department on the basis of the first year's work in Honours in the Department (i.e., the first year after admission to Honours) to a candidate for Honours (Major) in Economics or Politics. The holder of the scholarship will be paid \$100 in each of two succeeding years. The second payment may be withheld, on recommendation of the Department, if the holder's progress is not satisfactory.

Gowan Foundation No. I

Value \$20. Founded by the late Sir James R. Gowan, K.C.M.G. Awarded for the best essay written under examination conditions in February of each year, on one of a list of subjects prescribed by the Department of Political and Economic Science.

Gowan Foundation No. III

Value \$20 in books. Founded by the late Sir James R. Gowan, K.C.M.G. Awarded in Honours in Political Science.

P. D. Ross Scholarship in Commerce

Value \$150. Given by P. D. Ross, LL.D., Ottawa. Awarded on the basis of the third year's work in the Commerce Courses, provided that the candidate is taking at least four full courses or their equivalent in the "Special Subjects" in Commerce and Administration and lacks not more than five other courses for graduation in Commerce. Tenable during the student's fourth year, if it is taken intramurally.

This scholarship will be given only when funds are available.

DEPARTMENT OF PHILOSOPHY**Isaac Cohen Scholarship in Philosophy**

Value \$100. This Scholarship will be awarded annually to a student in Philosophy on the results of the year's work in Philosophy 1.

David S. Sabbath Scholarship in Psychology

Value \$100. Awarded to the student taking the highest standing in Philosophy 2 (Psychology).

DEPARTMENTS OF MATHEMATICS AND PHYSICS**N. F. Dupuis Scholarship in Mathematics**

Value \$50. This is one of three scholarships founded by the graduates of the University in honour of the late Professor N. F. Dupuis on the completion of his forty-five years' service as Professor in the University. The scholarship is awarded to the student who takes the highest standing in Mathematics 1 in the April examinations.

E. D. Merkley Prize in Mathematics 2

A prize of the value of \$5 in books. Founded in memory of E. D. Merkley, B.A., a graduate of 1926. Awarded each year to the student obtaining the highest standing in Mathematics 2.

Day Scholarship in Physics and Mathematics

Value \$20. Founded in memory of the late Calvin Wellington Day, M.A., Lieutenant 2nd Battalion, C.E.F. Awarded to students proceeding to the Honours Course in Physics and Mathematics, the award to be based on examinations in Physics 2 and the Mathematics taken in the same year, provided that at least one full course in Mathematics other than Mathematics 1 is being taken.

DEPARTMENT OF CHEMISTRY**Dr. William H. Nichols Scholarships in Chemistry**

Founded by Dr. William H. Nichols. Two Scholarships of the value of \$48 and \$32 will be awarded in the Faculties of Arts and Applied Science to the students obtaining the highest marks during the year in Chemistry 2 (Arts) and Qualitative Analysis I (Applied Science).

William Moffat Scholarship

Value \$40. Founded by Dr. William Moffat of Utica and awarded annually to the student making the highest standing in first year Chemistry. The award will be made on the combined results of class work and examination, and students in both Arts and Science are eligible.

Milton Hersey Fellowship in Chemistry

This Fellowship, of the annual value of \$400, is endowed by Milton L. Hersey, M.Sc., LL.D., of Montreal. It is open to graduates of all universities and technical colleges.

The holder of this Fellowship shall carry on research work for the whole session and embody the results in a thesis. The research may take the form either of independent investigation or of assistance in an investigation carried on by some department. The Fellow may be required to undertake tutorial work not to exceed six hours a week.

Applications for Fellowships will be received by the Registrar up to May 1. If no appointment is made by that date, further applications will be received up to September 1.

DEPARTMENT OF BIOLOGY**W. W. Near Scholarship in Biology**

Founded by the late W. W. Near, Esq., of Toronto.

Value \$200: awarded by recommendation of the Department on the basis of the first year's work in Honours in the Department (i.e., the first year after admission to Honours) to a candidate for Honours

(Major) in Biology. The holder of this scholarship will be paid \$100 in each of two succeeding years. The second payment may be withheld, on recommendation of the Department, if the holder's progress is not satisfactory.

Gowan Foundation No. II

Value \$16. Founded by the late Sir James R. Gowan, K.C.M.G., for the best collection of Canadian Ferns and Fern Allies. The plants must be good specimens, well pressed and mounted on herbarium sheets of the standard size. The collection must be delivered before December 15.

Ann Eliza Stafford Scholarship in Biology

Value \$40. This Scholarship is not yet available but will later be provided by T. T. Bower, Esq., of Winnipeg, at which time the conditions of award will be announced.

DEPARTMENT OF GEOLOGY

Manley B. Baker Scholarships in Geology

Founded by Agnes Moreland Baker. Two Scholarships of the value of \$125 and \$75 will be awarded annually to the students in the Faculty of Arts or of Applied Science obtaining highest and second highest standing in the first three courses in Geology. These may include Mineralogy 10a (Arts) or Mineralogy III (Science). If two students are equal preference will be given to the one whose need is greater.

GENERAL SCHOLARSHIPS

University Scholarships

Six Scholarships of the value of \$100 and eight of the value of \$75 will be awarded at the close of each session to students completing first, second and third year work who will be in attendance during the following session.

The Reuben Wells Leonard Undergraduate Scholarships

Two Scholarships of the value of \$150 each and one of the value of \$200. One of these Scholarships is awarded in each Faculty to the student standing highest at the end of his penultimate year. The holder must be in residence in his final year.

Khaki University and Y.M.C.A. Memorial Fund

This fund is part of a sum, left from the Khaki University after the War, which was divided among the Canadian Universities.

The interest, amounting to \$240, will be used to award one or more scholarships open to undergraduate students in any Faculty. In awarding these scholarships the need as well as the standing of applicants will be considered and preference will be given to returned men, or sons or daughters of soldiers of the Great War. Applications will be received by the Registrar up to April 1st.

Robert Bruce Scholarships

Under provisions of the will of the late Robert Bruce of Quebec the University has established a Scholarship worth about \$90 in each of the Faculties of Arts, Applied Science and Medicine. Until 1948 the award is limited to students of Scottish extraction.

The Scholarship in each Faculty will be awarded at the end of the first year to the student who has made the highest standing on the regular examinations of that year. One-third of the value of each Scholarship will be paid to the winner in each of the second, third, and fourth years of his Course provided that he is in attendance in the Faculty in which the award was made.

Robert Bruce Bursaries

The will of the late Robert Bruce of Quebec provided for a sum of about \$100 a year to be given in Bursaries "to students of promising ability but straitened circumstances." Until 1948 the award is limited to students of Scottish extraction.

This sum will be disbursed annually to one or more students in the third or later years in any Faculty. The Registrar will receive applications up to September 1 in each year.

Welch Scholarship

Value \$100. Founded by Frederick Welch of Kingston. Awarded in the Faculty of Arts and open for competition only to the sons and daughters of non-commissioned officers and men who have served overseas in the late war, and of mechanics and labourers, which students shall at the time be bona fide residents of the City of Kingston; preference being given to the children of soldiers. Application for this Scholarship must be made to the Registrar not later than April 1 and must give evidence of eligibility in accordance with the terms of the will. The Scholarship will be awarded on the basis of the April examinations and will be tenable by a student in residence during the session following the award.

McLeod and McLean Scholarships

Founded by Jane McLeod. Two scholarships of \$33.50 each. Awarded each year to the two most promising and deserving students entering any Faculty of Queen's University from the Kingston Collegiate Institute.

III—GRADUATE FELLOWSHIPS

A—Arts Research Fellowships

The University will award two Fellowships of the value of \$500 and one or two of smaller value. These will be open to men and women who have taken an Honours B.A. at Queen's or an equivalent degree elsewhere. At the discretion of the Committee on Arts Research one of the \$500 Fellowships may be awarded as a Travelling Fellowship, but with this exception the appointments are given only to those undertaking graduate studies at Queen's.

A student appointed to a Travelling Fellowship must submit and have approved a plan of study, and must present a report on his year's work within twelve months of his appointment.

A student appointed to a Fellowship within Queen's may be required by the Committee in consultation with the Department concerned, to undertake work of any of the following kinds: (a) Independent investigation, (b) Assistance in research work carried on by the Department, (c) Tutorial assistance not to exceed six hours a week.

The holder of a Fellowship may be required to report in lectures or in written form the results of any investigations carried on.

The holder of a Fellowship shall not be permitted to do any tutorial work except such as may be required of him by the Department in which his special studies lie. In no case shall tutorial work exceed six hours a week or entitle the Fellow to additional remuneration.

Applications must be sent to the Registrar, accompanied by evidence of eligibility, not later than April 1 of each year.

The Fellowships will be awarded only to candidates of distinction and promise.

B—The Reuben Wells Leonard Fellowships

Under the will of the late Reuben Wells Leonard provision was made for the following Fellowships:

Four Fellowships of the value of \$500 will be awarded to graduates of the University "who are willing and qualified to undertake independent research work in the interests of higher culture". These Fellowships are tenable only by students in attendance at Queen's.

Application must be made to the Registrar not later than April 1st.

C—The Right Honourable R. B. Bennett Scholarship

Value \$250. This scholarship will be offered annually in the first instance to enable an approved student to take a summer session at the Geneva School of International Studies. If in any year there is no suitable candidate, the scholarship will be offered as a Fellowship in any Faculty.

D—Student Exchanges

From time to time student exchanges are arranged with French and German universities. Scholarships are awarded covering tuition, board and lodging. Applications from final year and graduate students will be received by the Registrar each year up to March 1st.

IV—FELLOWSHIPS NOT CONTROLLED BY THE UNIVERSITY

A—The Marty Memorial Scholarship

This scholarship in memory of Dr. Aletta Marty is offered by the Queen's University Alumnae Association. Any woman graduate of Queen's University with a Master's degree may hold this scholarship, which will ordinarily be awarded for a year's graduate work overseas. A committee chosen by the Alumnae Association will make the award.

The scholarship will first be awarded early in 1937 for the academic year 1937-38. The amount for that year will be not less than \$750. The scholarship may be awarded to the same woman for a second year. The committee is authorized to withhold the award in any year for financial or academic reasons.

Applications should reach the Registrar not later than January 1st, 1937. Candidates must have the Master's degree when they hold the scholarship but not necessarily when they apply for it. Further information may be obtained from the Registrar's Office.

B—The Rhodes Scholarship

1. *General Regulations*:—A Rhodes Scholarship is tenable at the University of Oxford and may be held for three years. Since, however, the majority of Rhodes Scholars obtain standing which enables them to take a degree in two years, appointments are made for two years in the first instance, and a Rhodes Scholar who may wish to remain for a third year will be expected to present a definite plan of study for that period satisfactory to his College and to the Rhodes Trustees.

Rhodes Scholars may be allowed, if the conditions are approved by their own College and by the Oxford Secretary to the Rhodes Trustees, either to postpone their third year, returning to Oxford for it after a period of work in their own countries, or may spend their third year in post-graduate work at any university of Great Britain, and in special cases at any university on the continent of Europe, the overseas dominions, or in the United States, but not in the country of their origin.

The stipend of a Rhodes Scholar is fixed at £400 per year. At most Colleges, and for most men, this sum is not sufficient to meet a Rhodes Scholar's necessary expenses for Term-time and Vacations, and Scholars who can afford to supplement it by £50 per year from their own resources will find it advantageous to do so.

2. *Conditions of Eligibility*:—A candidate to be eligible must:

1. Be a British subject, with at least five years' domicile in Canada, and unmarried. He must have passed his nineteenth year, but not have passed his twenty-fifth birthday on October 1st of the year *for* which he is elected;

2. Have reached such a stage in his course at one of the Universities in Canada that he will have completed at least two years at the university in question by October 1st of the year *for* which he is elected.

Candidates may apply either for the province in which they have their ordinary private domicile, home or residence, or for any province in which they have received at least two years of their college education before applying.

In that section of the Will in which he defined the general type of scholar he desired, Mr. Rhodes wrote as follows:

"My desire being that the students who shall be elected to the Scholarships shall not be merely bookworms, I direct that in the election of a student to a Scholarship regard shall be had to:

1. his literary and scholastic attainments;
2. his fondness for and success in manly outdoor sports such as cricket, football and the like;
3. his qualities of manhood, truth, courage, devotion to duty, sympathy for and protection of the weak, kindliness, unselfishness and fellowship, and
4. his exhibitions during school days of moral force of character and of instincts to lead and to take an interest in his schoolmates for those latter attributes will be likely in after life to guide him to esteem the performance of public duty his highest aim.

Full particulars may be obtained from D. R. Michener, 372 Bay St., Toronto, Secretary of the Selection Committee for the Province of Ontario. Two Scholarships may be awarded annually in the provinces of Quebec and Ontario if qualified candidates appear.

Each candidate for a Scholarship is required to make application to the Secretary of the Committee of Selection of the province in which he wishes to compete, not later than November 10th. Application forms may be obtained from the Registrar's Office.

The following graduates of Queen's University have been awarded Rhodes Scholarships:

J. M. Macdonnell, M.A., 1905.
 A. G. Cameron, B.A., 1906.
 Norman S. Macdonnell, M.A., 1907.
 Stanley Scott, B.A., 1911.
 H. S. Smith, M.A., 1912.
 A. G. Cumming, M.A., 1914
 H. R. MacCallum, B.A., 1919.
 K. E. Taylor, B.A., 1920.
 A. D. Winspear, B.A., 1922
 L. F. Kindle, B.A., 1925.
 D. A. Skelton, B.A., 1926.

This Scholarship is not controlled by the University.

C—Royal Society of Canada Fellowships

Ten annual fellowships to be known as the Royal Society of Canada Fellowships, each of \$1500, and open on equal terms to men and women, have been endowed for a period of five years through the generosity of the Carnegie Corporation. They are tenable at institutions of learning or research, save in exceptional circumstances outside of Canada, and are available for advanced research in Literature, History, Anthropology, Sociology, Political Economy, or allied subjects, in French or English; and in Mathematics, Chemistry, Physics, Geology, Biology, or subjects associated with any of these sciences.

An applicant for a Fellowship should be a graduate of a Canadian university or college, or should have received an equivalent training in a Canadian institution possessing adequate facilities in his particular subject, and, except in special cases, should have the Master's degree or its equivalent or, preferably, have completed one or more year's work beyond that degree.

Applications, addressed to "The Secretary Royal Society of Canada Fellowships Board, Ottawa, Canada," should contain particulars of the candidate's age and place of birth, a full statement of his academic career, with copies of original papers and any other evidence of his ability or originality in his chosen field; also an indication of the particular work he proposes to undertake, at what institution, and under whose direction; and should be supported by recommendations from the head of the department of the institution in which the candidate has studied, and from the instructors under whom he has chiefly worked. All these papers should be in duplicate.

The following graduates of Queen's have held these Fellowships:

Miss Christine Rice, M.A., Ph.D., 1932-33.
 George Alan Harcourt, M.Sc., 1932-33.
 Harold Williams Fairbairn, B.Sc., 1933-34.
 William Carruthers Güssow, M.Sc., 1936-37.

This Fellowship is not controlled by the University.

D—Exhibition of 1851 Science Research Scholarship

This postgraduate scholarship of the annual value of £250 was founded by Her Majesty's Commissioners for the Exhibition of 1851, and is awarded to students who have given evidence of capacity for original research, and, except in very special circumstances, are under 26 years of age.

A given number of Scholarships are awarded annually to students in Canada recommended by the Universities approved by the Commission.

The nominee must be a British subject, must have been a *bona fide* student of Science for three years, must have been a student of this University for a full year immediately before his nomination, must be a student of this University at the time of his nomination (or he must have been a student at this University for a full year ending within twelve months prior to his nomination and since ceasing to be such student must have been engaged solely in scientific study), and must pledge himself not to hold, without special permission from the Commissioners, any position of emolument while holding the scholarship. He is recommended to the Commissioners by the Senate of the University. The scholarship may be held for two years, if the report of the first year's work be satisfactory to the Commissioners, and in exceptional cases for a third year. In the absence of special circumstances, the scholar will not be permitted to conduct his investigations in the country in which he received his scientific education. The particular investigation the student proposes to pursue must be stated before a scholarship can be awarded.

The scholarship is payable quarterly in advance and a grant of £25 will be paid if a satisfactory final report is presented within three months of the expiration of the scholarship. If in the opinion of the Commissioners it is necessary a scholar will receive an additional annual allowance not exceeding £30, and in some cases the fare from his University will be partially paid.

Recommendations must be received at the office of the Commissioners on or before June 1.

The following Science Research scholars have been appointed from Queen's University:

Norman R. Carmichael, M.A., 1894.
Thomas L. Walker, M.A., 1896.
Frederick J. Pope, M.A., 1898.
W. C. Baker, M.A., 1900.
C. W. Dickson, M.A., 1901.

C. W. Knight, B.Sc., 1904.
 F. H. McDougall, M.A., B.Sc., 1905.
 Campbell Laidlaw, B.A., M.D., 1907.
 N. L. Bowen, M.A., B.Sc., 1909.
 Walter A. Bell, B.Sc., 1911.
 John R. Tuttle, M.A., 1913.
 Robert C. Cantelo, B.Sc., 1915.
 Douglas G. H. Wright, B.Sc., 1921.
 R. H. F. Manske, M.Sc., 1924.
 Donald C. Rose, M.Sc., 1924.
 H. M. Cave, M.A., 1926.
 B. W. Sargent, M.A., 1928.
 E. H. Charlesworth, M.A., 1931.
 G. S. Farnham, M.Sc., 1932.
 W. J. Henderson, M.A., 1932.
 William Ernest Bennett, M.A., 1934.
 John Stewart Marshall, M.A., 1935.

This Scholarship is not controlled by the University.

E—Scholarship of the Canadian Federation of University Women

The scholarship of the Canadian Federation of University Women, value \$1,250, available for study or research work, is open to any woman holding a degree from a Canadian University. In general, preference will be given to those candidates who have completed at least one or two years of graduate study and have a definite research in preparation. The award is based on evidence of character and ability of the candidate and promise of success in the subject to which she is devoting herself.

This Scholarship is not controlled by the University.

For all information address the Convener of the Scholarship Committee, Dr. Margaret Cameron, University of Saskatchewan, Saskatoon. Applications must be received not later than February 1st.

The following graduates of Queen's University have been awarded the Federation Scholarship:

Miss Mary White, M.A., 1930.
 Miss Marie Hearne, M.A. (Queen's), Ph.D. (McGill), 1935.

F—Daughters of the Empire Post-graduate Scholarship (Overseas)

As part of their War Memorial the Imperial Order Daughters of the Empire offers in each Province in Canada a scholarship for postgraduate study in Britain. The scholarship, of the value of \$1,400, is tenable for one year, but in most Provinces it may be awarded to the same person for a second year.

These scholarships are subject to the following conditions:

(1) Candidates may be men or women. They must be British subjects, with at least five years' residence in Canada, and unmarried. Except in the case of a returned soldier, sailor or airman, they must have passed their 19th but not their 27th birthday in October of the year in which they begin their work in Britain. In the case of a returned man the age limit is higher. Each candidate must either hold a degree from a University or College in the Province in which he or she is making application, or be in his or her final year in a course proceeding to a degree.

(2) In each Province a Committee of Selection will award the scholarship. Other things being equal, preference will be given to a returned man, his sister, son or daughter. The Committee will consider not only the academic record of the candidate, but his or her character, physical fitness, and promise.

(3) Applications for this scholarship should be sent, before October 6th, to the Provincial I.O.D.E. Educational Secretary, Y.W.C.A. Building, Main Street, Hamilton, Ontario, who will provide additional information about the scholarships.

The following graduates of Queen's University have been awarded Daughters of the Empire Overseas Scholarships:

Watson Kirkconnell, M.A., for the year 1921-1922.

Hartley Munro Thomas, B.A., for the year 1923-1924.

This Scholarship is not controlled by the University.

V—PRIZES

In submitting literary articles or essays, candidates for prizes must observe the following regulations:

1. Competitive papers must be given to the Registrar not later than April 1.

2. Each paper must bear a motto instead of the author's name, and must have attached to it a sealed envelope, bearing the same motto and containing a signed declaration that it is his unaided composition.

3. Prizes will be awarded only to those compositions which the examiners consider to be of sufficient merit.

4. All successful compositions shall be the property of the University, and shall be at the disposal of the Senate.

The M. C. Cameron Prize in Gaelic

Value \$40. Founded by the late M. C. Cameron, M.P., Goderich. Awarded to the best Gaelic scholar, reader or speaker, provided that he does not take less than 50% of the total number of marks in the competitive examination. Application for examination should be submitted to the Registrar before January 15 in each year. Work prescribed: any 600 lines of Ossian's *Fingal*, or an equivalent amount of any other Gaelic literature selected by the candidate; Blackie's *Language and Literature of the Scottish Highlands*, Gaelic Grammar, translation at sight of Gaelic into English and English into Gaelic.

Curtis Memorial Foundation

Value about \$56. Founded in memory of the late J. T. Curtis of Ottawa. Awarded in October to a graduate of that year (April or September), who has completed the degree Course by extramural and Summer School work. The award is made by a special committee on the basis of scholastic ability, interest in athletics, and service to the Summer School.

Prince of Wales Prize

A prize of the value of \$32 in books. Founded in 1860 by H.R.H. the Prince of Wales. Awarded each year to the graduating student in the Faculty of Arts who makes the highest standing.

VI—MEDALS

A medal is awarded annually by the University to the candidate in each major subject who has made the highest standing on the whole of his Honours work in that subject, provided such standing is Class I.

Special Medal

The French Government offers annually a medal for the best essay in French on any subject connected with France. This essay, the subject of which must be approved by the Department, must be handed in by the 1st of April. Open only to Honours students in French.

GENERAL REGULATIONS

All enquiries regarding regulations should be addressed to the Registrar.

Changes in regulations become effective immediately.

SPECIAL STUDENTS

1. Special students are those who do not intend to proceed to a degree. Such students may be admitted on satisfying the Faculty as to their ability to profit by the courses to which they seek admission.

2. Special students under twenty-one at the opening of the session are subject to all the regulations affecting regular students and to the following special regulations:—

(i) They shall not be granted admission for more than one session, though they may be readmitted to a succeeding session on a new application.

(ii) They shall not be allowed any supplemental examination but must withdraw from the University immediately if they fail to satisfy the Faculty at the regular January or April examinations.

(iii) Examinations passed by special students shall carry no credit towards Matriculation or towards a degree.

(iv) Attendance as a special student will not count as part of the attendance required for a degree.

3. Special students over twenty-one years of age at the opening of the session may by action of the Faculty be exempted from all regulations respecting attendance and work.

REGULATIONS REGARDING COURSES

Attendance and Exercises

4. Students are expected to hand in all essays and class exercises when due, and to be present at all lectures and laboratory periods.

If students fail to attend seven-eighths of the lectures and laboratory periods of any course or if they fail to hand in such essays and exercises as are definitely required by the department,

(a) the department may reduce their final standing in the course by as much as 50 per cent.,

or,

(b) on the recommendation of the department, the Board of Studies may withhold all credit for their examination until they have registered as extramural students in the following summer and have satisfactorily completed the work assigned by the department (the fee for such summer work is \$10),

or,

(c) on the recommendation of the department, the Board of Studies may require them at any time during the session to relinquish the course for the current academic year.

A record of absences based on monthly reports from Instructors is kept at the Dean's Office.

5. The December and April marks will be determined not merely by the results of examinations but also by the work of the whole term or session, including consideration of class tests, examinations, attendance, and progress.

6. The faculty may at any time either during the term or after the close of the term require any student to withdraw from the University whose conduct, attendance, work, or progress is deemed unsatisfactory.

Penalty for Failures and Low Grades

7. Students who fail in any course they intend to count towards a degree must repeat that course before coming up for examination in that course in any subsequent year. Normally the course should be repeated in the year following failure.

8. Students who pass in not more than two whole courses out of four or five attempted in the final examinations will be considered to have failed the year. Failure in the year will be determined by the results of the final examinations in January and April. Students who fail their year will not be allowed to take the fall supplemental examinations.

9. Students who twice in Course fail a year's work will be required to withdraw from the University.

10. Students who fail a year will retain credit only in those subjects in which they have obtained at least Grade B standing.

11. Students who make less than 30% on a subject in the final examinations in January or April will not be permitted to take the fall supplemental examination in that subject unless they repeat the course during the summer following either at the Summer School or extramurally.

12. Students whose standing for the first term is regarded as unsatisfactory may be required to withdraw for the rest of the year.

Number of Courses in a Year

13. No student is allowed to take more than five lecture courses in the academic year. See, however, section 8 (iii) under ADMISSION TO THE FACULTY OF ARTS.

14. Intramural students, unless excused for some special reason, must take five courses in each of the first and second years. In no case will such students be allowed to take fewer than three courses in the first or second year. In exceptional circumstances, they may, however, with the consent of the Board of Studies, take three or four courses in the winter session and the rest extramurally in the summer, provided that they attend the Summer School.

15. Students who without special permission drop a course will be regarded as having failed in that course.

Preparatory Courses

16. Students with full matriculation who desire to begin work in Greek, German, or Spanish may count course A in one or more of these subjects towards a Pass degree, or as optional general courses towards an Honours degree. A student wishing to take Honours in one of the above subjects will be permitted to take course 1 during the summer after taking course A in the winter, but in such cases course A may not be counted towards a degree.

17. Courses A and 1 may not be substituted for courses 1 and 2 where the latter are definitely prescribed.

REGULATIONS REGARDING EXAMINATIONS

(See also Regulations 5 to 12)

Mid-Term Examinations

18. In every class numbered A, 1, 2, and in History 1 and 3, there will be an hour examination arranged by schedule at the regular class hour about four weeks after the opening of the session.

19. Other hour examinations in the regular class hour may be held by any instructor whenever he thinks advisable.

December Examinations

20. Mid-winter examinations in all whole courses are held during the last week before the Christmas holidays. In these courses credit not exceeding fifty per cent. of the final marks may be assigned to the work of the first term. The attention of students is called to Regulations 5 and 8. Final examinations in half-courses of the first term are held in January (see page 6).

April Examinations

21. Final examinations are held in April. Intramural students must take these examinations in all the whole courses and half-courses in which they are registered in the second term. Permission to postpone until September examinations in courses numbered under 10 may be obtained in special cases but only upon the recommendation of the Professors concerned. Honours examinations may not be postponed. Examinations will be held in the Reading courses of all subjects.

The attention of students is specially called to Regulations 5, 8, and 10.

September Examinations

22. Supplemental examinations are held in September in all Pass courses and in the first course in Honours but no supplemental examinations will be given to intramural students in courses beyond the first three courses of a Major or Minor subject for the Honours B.A. degree. September papers will be set in Reading courses 1 and 2 for those who do this reading during the summer and in all subjects offered at the Summer School.

23. Students may not take a supplemental examination in any course or half-course in which they have made less than thirty per cent. at the previous examination, unless they repeat the course in the Summer School.

24. At the specified date (see pages 5 and 6) before the September examinations begin, all candidates must apply to the Registrar for permission to write on the subjects in which they desire to be examined. The application must be on printed forms supplied for the purpose and must be accompanied by the proper fees. See FEES.

Special Examinations

25. Students who for any reason fail to take an examination on the appointed date may be required to take a special examination. The fee is five dollars for one special examination; ten dollars for two or more special examinations.

Admission to Examinations

(See also Regulations 4, 21, 22)

26. Students will not be permitted to take examinations unless they have registered on the prescribed date within the academic year in which they present themselves. (See REGISTRATION.) But graduates not in attendance, who wish to take examinations merely to raise their standing in subjects already passed, may delay their registration until February 15.

27. No candidate will be admitted to the examination hall later than thirty minutes after the beginning of the examination.

28. No candidate will be permitted to take any books or papers into the examination hall except by express direction of the examiner.

Determination of Standing

29. In determining a student's standing at a sessional examination the Departments will take into account the entire class record. See Regulation 4.

30. The following percentages are required for the various grades of Pass and Honours standing in all courses:

PASS STANDING

(Applying only to courses numbered under 10)

Grade A	75 per cent. and over.
Grade B	62-74 per cent.
Grade C	50-61 per cent.

HONOURS STANDING

(Applying to all courses numbered 10 or over)

Grade A	75 per cent. and over.
Grade B	66 to 74 per cent.
Grade C	55 to 65 per cent.
Grade D	50 to 54 per cent.

COURSES OF STUDY LEADING TO THE DEGREE OF B.A.

GENERAL EXPLANATIONS

Pass and Honours Courses

The word "Course," when printed with an initial capital, is used to indicate a programme of work leading to a degree or certificate.

A candidate for the degree of Bachelor of Arts may take a Pass Course or an Honours Course. The latter requires greater specialization and higher standards in the work of the two main subjects. Details are given below under REQUIREMENTS FOR THE DEGREE OF BACHELOR OF ARTS.

Courses and Half-Courses

The word "course," printed with an initial small letter, indicates a unit of work occupying, as a rule, three hours a week throughout the session. A "half-course," on the other hand, usually occupies only one term, though occasionally it may run through the session.

Two half-courses are equivalent to a whole course, and when the amount of work to be done is defined in courses, it is to be understood that an equivalent in courses and half-courses may be offered.

Numbering of Courses and Half-Courses

Preparatory courses in the languages are designated by the letter A. See GENERAL REGULATIONS. Other courses are numbered with Arabic numerals (Latin 1, Greek 2). Half-courses have in addition to the numeral the letter *a* or *b*, according as they are offered in the first or second term. A half-course running throughout the session is marked *hf*. (Chemistry 133hf.) Courses in advanced work marked "t" are two-hour courses extending throughout the year.

The fundamental courses in each subject are numbered 1 and 2 (History 1 or 3) and must be taken by all proceeding to advanced work in the subject. Other courses numbered under 10 are for Pass students only. Courses numbered 10 and upward are Honours courses, though in most departments some of them are open to Pass students also.

SYNOPSIS OF COURSES

The following Courses of Undergraduate Study are offered in the Faculty of Arts:

Pass Courses leading to the degree of B.A.

Honours Courses leading to the degree of B.A. with Honours and Specialist standing.

Courses in Commerce and Administration.

Combined Course in Arts and Applied Science.

Combined Course in Commerce and Applied Science.

Combined Course in Arts and Theology.

Candidates are subject to changes in Regulations or Courses made after their first registration unless in the judgment of the Board of Studies undue hardship is involved.

All enquiries regarding Regulations should be addressed to the Registrar.

REQUIREMENT FOR A PASS B.A. DEGREE

A candidate for a Pass degree must pass twenty classes, chosen in accordance with the three regulations given below, and must make a standing of Grade B or over in at least ten. In courses numbered 10 or over Grade C will count as the equivalent of Grade B.

A. The twenty classes offered for a degree must include the following eight:

English 1, English 2,

Latin 1, or Mathematics 1

Any *two* chosen from Greek 1, German 1, French 1, Latin 1,
Latin 2, Greek 2, German 2, French 2,

Philosophy 1,

Any one chosen from History 1, History 3, Economics 1, Politics 2,

Any *one* chosen from Physics 1, Chemistry 1, Biology 1, Biology 2, Geology 1, Mineralogy 1.

B. Candidates must so arrange their work as to include at least three classes in each of three subjects.

- C. Additional classes to make a total of twenty may be freely chosen, subject to the regulations regarding prerequisites, from those listed under the heading "Details of Courses of Instruction."

Spanish and Italian may not both be counted towards a degree, but students taking Honours in Spanish may substitute Italian for one of their lecture courses in Spanish.

Italian, Spanish, and Biblical Language and Literature may be counted towards a degree as optional subjects, but of these four only Spanish may be taken as an Honours subject.

HONOURS COURSES LEADING TO THE DEGREE OF BACHELOR OF ARTS

Students who began an Honours Course with the University before 1932 and have continued it without break, may either complete it under the regulations of the calendar under which they entered, or may transfer to the new Honours Course.

I. Admission to Honours

(a) At the end of the second year (from Pass Matriculation) candidates for an Honours Course shall apply through the Registrar to the Departments concerned for permission to proceed in their Major and Minor subjects. The Departments will not accept them unless in their work during the first two years they have shown promise of ability to qualify for Honours by obtaining at least 62% in each special subject and by reaching a satisfactory standard in their other work. Candidates who have obtained a lower grade shall be accepted only by the Committee of Departments.

(b) At the end of the third year and again at the end of the fourth year all candidates for Honours will be considered by the Committee of Departments with reference to their fitness to proceed and if their work is not satisfactory they shall be required to revert to a Pass Course.

II. General Plan of Honours Courses

A. WEIGHT OF WORK

The programme of work for an Honours Degree consists of twenty lecture courses and three Reading courses.

Of the twenty-three courses required,

- (a) Twelve constitute a Major composed as follows:

(1) Nine lecture courses of which seven shall be in one subject and the remaining two, at the discretion of the Major De-

partment, shall be in the same subject or shall be supporting work in other subjects. For the purpose of this regulation, Italian 1 shall be regarded as a course in Spanish and Geology and Mineralogy shall be regarded as a single Department.

If Pass courses from another Department are prescribed as part of the Major group, the candidate must make Grade B in them; if advanced courses from another Department are approved, the candidate must make Grade C in them but will be exempt from the regulations regarding standing in earlier work in the subject.

(2) Three Reading courses. Each of these in weight of work shall be the equivalent of a three-hour lecture course and the content will be determined by the Major Department. Field work or research, approved by the Major Department, may be substituted for one of the Reading courses but no candidate shall be required to make such substitution.

- (b) Five constitute a Minor. These shall ordinarily be in one subject, but a candidate offering a Minor in Science or in Political and Economic Science may, with the consent of the Major Department, divide the Minor between two subjects.
- (c) Six are general courses outside of the Major and Minor groups. These must include such compulsory classes specified below under B as are not included in the Major and Minor groups, and such other classes, freely chosen, as may be required to bring the number of general courses up to six.

The detailed prescription of work for each subject of instruction shows in the introductory matter the general courses required when that subject is taken as a Major.

B. COMPULSORY COURSES

- (a) The following classes must be included among Major, Minor, and General courses:

English 1, 2.

Latin 1 or Mathematics 1.

Latin 1 must be taken by candidates whose Major or Minor is in English or a foreign language. Mathematics 1 must be taken by candidates whose Major or Minor is in a science.

French 1 or German 1 or Greek 1.

Philosophy 1.

A science course.

(b) Other compulsory courses may be required by the Major Department, but in that case they must be counted as part of the Major or Minor as provided under A.

III. Special Honours Courses varying slightly from the plan above.

A. HONOURS IN LATIN AND FRENCH WITH GREEK.

The following courses are required:

- (a) Six courses for Major in Latin, 1, 2, 10, 15, 21, Greek and Roman History 51.
Five courses in Greek from A, 1, 2, 11, 21, Greek and Roman History 52 or 53.
- (b) Two Reading courses in Classics to be freely chosen.
- (c) Five courses for Minor in French, 1, 2, 11, 12, 20.
- (d) Five general courses, Philosophy 1, English 1, English 2, one science, one free option.
The general examinations are all in the Department of Latin.

B. HONOURS IN GENERAL SCIENCE FOR TEACHERS

For Honours in Science under the new Course a student must take:

- (a) Nine courses for Major, as follows: Seven courses in Physics or in Chemistry or in Biology, with two supporting courses, Mathematics 2 and Geology 1 or Mineralogy 1. Where the Major is Physics, Mathematics 11b must be substituted for a half-course in Physics.
- (b) Three Reading courses: one each in Physics, Chemistry and Biology.
- (c) Six courses for Minor: three each in the two of Physics, Chemistry and Biology which are not in the Major.
- (d) Mathematics 1, Philosophy 1, English 1, English 2, and one of French 1, German 1, Greek 1.
- (e) Five general examinations: three in the Major science and one in each of the Minor sciences.

IV. Length of Course

The Course for the degree of B.A. with Honours normally covers five years from Pass Matriculation or four years from Honour Matriculation in five full subjects. It is possible, however, for candidates of exceptional ability to save a year by taking five regular lecture courses

or the equivalent in hours in each of four years and by doing the Reading Courses in the third and fourth years and in the intervening summer.

The following plans show how the work may be distributed according as a five or a four year programme is followed. A candidate specializing in Philosophy or Economics, which are not offered till the second year, will complete his first year's programme with general courses so as to leave room in the second and third years for five courses in the Major or three courses in the Minor.

A candidate is expected to complete all his general courses by the end of the third year.

Suggested Plan for a Five Year Course

(in terms of 3-hour Units)

<i>1st year</i>	<i>2nd year</i>	<i>3rd year</i>	<i>4th year</i>	<i>5th year</i>
major 1	major 2, 3	major 4, 5	major 6, 7	major 8, 9
minor 1	minor 2	minor 3	minor 4	minor 5
3 general courses	2 general courses	1 general course	Reading course 2	Reading course 3
		Reading course 1		

Suggested Plan for a Four Year Course

(in terms of 3-hour Units)

Only candidates of exceptional ability and industry will be permitted to proceed beyond the second year on a Four Year Plan.

<i>1st year</i>	<i>2nd year</i>	<i>3rd year</i>	Summer bet'n <i>3rd & 4th yrs.</i>	<i>4th year</i>
major 1	major 2, 3	major 4, 5, 6		
minor 1	minor 2	minor 3	Reading	major 7, 8, 9
3 general courses	2 general courses	1 general course	course 2	minor 4, 5
		Reading course 1		Reading course 3

V. Final Year Examinations

(a) *Comprehensive Examinations.* Candidates for the Honours B.A. degree must take five comprehensive examinations in the Major subject at the conclusion of their Course. The comprehensive examinations will be departmental papers and each will be read by at least two examiners. One of the five examinations may be oral or practical. The final standing will be determined partly by course examinations and sessional work but chiefly by the five comprehensive papers.

(b) *Other Examinations.* Candidates will be exempt from the regular sessional examinations in the Major subject unless required to write by the Department concerned. They must write examinations in such Reading courses, courses in the Minor, and general courses as are taken in the final year.

VI. Classes in Honours

An Honours degree will be granted to candidates who pass all their courses and make honours standing in the advanced work as a whole in each of the major and minor subjects. If the minor is split the standing must be obtained in the three courses numbered highest. The class of honours in each subject will be recorded on the diploma.

First class honours require a minimum of 75 per cent.

Second class honours require a minimum of 66 per cent.

Third class honours require a minimum of 60 per cent.

VII. Pass Degree on an Honours Course

Candidates who pass all their classes but fail to secure honours because they have made less than 60 per cent. in one or both of the major and minor will be given a pass degree if they have made at least 50 per cent. in each of these subjects.

First Year

Pass Matriculants must take in the first year five courses chosen from the following: Latin 1, Greek 1, German 1, French 1, English 1, Mathematics 1, Physics 1, Chemistry 1, Biology 1, Biology 2, Geology 1.

Social Work

Students who wish to proceed to Social work after graduation will find that any Arts degree will admit them to a recognized School of Social Work. Such students should include in their degree Course as many as possible of the following subjects: Economics, Sociology, History, Philosophy, Psychology, Biology and English.

COURSES FOR TEACHERS' CERTIFICATES IN THE PROVINCE OF ONTARIO

(Agreement of 1920)

I. Ordinary Certificates

The academic standing for admission to the professional Course leading to an ordinary High School Assistant's certificate is the degree of Bachelor or Master of Arts, Bachelor or Master of Science, or Bache-

lor of Commerce, from a British University, based upon Courses approved by the Minister of Education.

II. Specialists' Certificates

Subject to the conditions specified below, the academic standing required of Specialists may be obtained by completing a Course in Arts with Honours in one of the following groups:

Greek and Latin	French and German or Spanish
Latin and French	History with Minor in Economics
English with Minor in History	Mathematics
English and French	Mathematics and Physics
English and German or Spanish	Science
	B.Com. Course (Specialist's Option)

Candidates for Specialists' certificates in English or in History must take as options the classes mentioned in the Departmental Prescriptions.

Candidates for Specialists' certificates in Science, should take the regular Honours Course in two of Physics, Chemistry, and Biology, or the Course for General Honours in Science for Teachers.

Graduates of the Faculty of Applied Science may obtain the standing required for Specialists by taking certain additional courses as stated below.

III. Specialists' Certificates for Graduates in Applied Science

1. IN MATHEMATICS AND PHYSICS

A degree in Applied Science in one of the Courses of Mining and Metallurgical Engineering, Chemistry, Mineralogy and Geology, Chemical and Metallurgical Engineering, Civil Engineering, Mechanical Engineering, or Electrical Engineering with a subsequent standing of at least 55 per cent. in each of the following courses and an average of 66 per cent. in the work of each subject:

Mathematics 10a, 11b, 12a, 15b, 16b, 18t.

Physics 10b, 12a, 13b, 14a.

credit towards these being given when equivalent subjects have been satisfactorily taken in Course. (On Math. V in Science Math. 11b may be granted in Arts.)

or,

A degree in Applied Science in the Department of Physics with subsequent standing of at least 55 per cent. in each of the following courses and an average of 66 per cent. in the work of each subject:

Mathematics 10a, 11b, 12a, 15b, 16b, 18t, and another advanced full course.

Physics 10b, 12a, 13b, 14a.

credit towards these being given when equivalent subjects have been satisfactorily taken in Course.

2. FOR SPECIALIST STANDING IN SCIENCE

A degree in Applied Science in one of the Departments of Mining and Metallurgical Engineering, Chemistry, Mineralogy, Geology, Chemical and Metallurgical Engineering, Civil Engineering, Mechanical Engineering, Electrical Engineering, or Physics, with a subsequent standing of at least 55 per cent. in each of the following courses, and an average of 66 per cent. in the work of each subject in courses numbered 10 or over:

Biology 1, 2, 11, 16,

Physics 11, or 14a and 13b.

Geology 1,

Mineralogy 1,

Chemistry 2, and one of 12, 13, 14, 17 not previously taken.

credit towards these being given when equivalent subjects have been satisfactorily taken in Course.

III. Inspectors' Certificates

The academic requirements for a Public School Inspector's certificate are as follows:

(1) An Honours degree in Arts or the degree of B.Com. (Commercial Specialists' Option) in accordance with the present agreement as prescribed for Specialist qualifications, or

(2) A Pass degree in Arts with a standard of 66% in any five courses beyond course 1, and Grade B in any other five courses.

(3) Candidates shall extend their Course over at least four years from Junior Matriculation and they shall attend the University classes (i) for at least two complete sessions approved by the University, or (ii) for at least one complete session, and two complete sessions of the Summer School, or (iii) for at least four complete sessions of the Summer School, or the equivalent thereof, with the supervision prescribed by the scheme agreed upon between the Department and the University.

COURSES IN COMMERCE AND ADMINISTRATION

These Courses, leading to the degree of Bachelor of Commerce, were established in 1919 to assist in meeting the need which exists in Canada of more systematic training for business and public service.

*General Business Course**First Year*

English 1
 French 1
 or German A or 1
 Mathematics 1
 Science (one course)
 One other general course which
 must be a language or a
 science.

Third Year

One additional course in French
 or in German
 or in Spanish
 or in Mathematics
 Commerce 60
 Commerce 63
 Economics 11a
 Economics 12
 *One half-course in Economics or
 Commerce, or Mathematics 7b.

Second Year

English 2
 French 2
 or German 1 or 2
 or Spanish 1 or 2
 or Mathematics 2
 Economics 1
 Politics 2
 or History 1 or 3
 Economics 4

Fourth Year

Commerce 52
 Commerce 54
 Economics 23
 Commerce 59 (Thesis)
 *One full or two half-courses, in
 Economics, Commerce or Ma-
 thematics 7b.

*Options selected must be approved by the Director.

The Courses in Banking established in 1914 by Queen's University in co-operation with the Canadian Bankers' Association will hereafter be continued as part of the Courses in Commerce and Administration.

For further particulars consult ANNOUNCEMENT OF THE COURSES IN COMMERCE AND ADMINISTRATION, copies of which may be obtained from the Registrar.

COMBINED COURSE IN ARTS AND APPLIED SCIENCE

A course leading to the Degree of B.A. and B.Sc. in six years.

Students taking this Course are required to have Arts Matriculation and to register for the first two years in Arts alone and to pay the full Arts fees; to register for the third and fourth years in both

Arts and Applied Science, paying the registration fees only in Arts and the Applied Science fees in full, including those of the Engineering Society; and to register for the last two years in Applied Science only, paying full fees. Arts classes are subject to the regulations in the Arts Calendar and Applied Science classes to the regulations in the Applied Science Calendar, but the regulations of the Faculty of Applied Science concerning students who fail to pass their classes will apply to those Courses throughout.

The courses must be taken in the order in which they are laid down in the Calendar.

The degree of B.A. will be conferred on candidates who complete four years' work with a minimum standing of fifty per cent. and sixty-two per cent. in half their classes.

Subjects numbered in Roman numerals are taken in the Faculty of Applied Science.

First Year

1. English 1
2. French 1 or German 1
3. Mathematics 1
4. Mathematics IV (Science)
5. Physics 1
6. Chemistry 1

Second Year

1. English 2
2. French 2 or German 2
3. Philosophy 1 or 2
4. and 5. Two of History 1, 3,
Economics 1, Politics 2.

Third Year

1. Course from Group I.
2. Course in a subject previously taken, but not covered by the later courses in Science.
3. Mathematics I, II and III.
4. Surveying I.
5. Drawing I.
6. Projection I.

Fourth, Fifth, and Sixth Years

The fourth, fifth, and sixth years are the same as the second, third, and fourth years of the B.Sc. Course. See the Calendar of the Faculty of Applied Science.

COMBINED COURSE IN ARTS AND THEOLOGY

A Course Leading to the Degree of B.A. and the Testamur in Theology in Six Years

Queen's University and Queen's Theological College join in offering a Combined Course in Arts and Theology. The complete Course covers six years. The first, second and third years are entirely within the Faculty of Arts. Candidates must be fully qualified for admission to the Faculty of Arts. The fourth year consists of one Arts class, for which a fee of \$25 is charged, and of the first year in Theology. The fifth and sixth years of the Combined Course are the second and third years in Theology.

The degree of Bachelor of Arts is awarded at the end of the fourth year to candidates who have passed in all their subjects and made Grade B in at least ten of the classes offered for the B.A. degree. The testamur in Theology is granted after the successful completion of the sixth year. Additional courses in Theology equivalent to at least one year's further study are required to qualify for the degree of Bachelor of Divinity. The subjects covered are given below:

First Year

1. English 1
2. Greek A
3. Latin 1 or Mathematics 1
4. Option
5. Science

Second Year

1. English 2
2. Greek 1
3. Hebrew 1
4. Option
5. Philosophy 1 or 2

Third Year

1. Option
2. Greek 2
3. Hebrew 2
4. Option
5. Option

Fourth Year

1. An Arts course
2. Church History
3. Systematic Theology
4. O. T. Criticism
5. N. T. Criticism
6. Practical Theology and Public Speaking.

Fifth Year

1. Church History
2. Systematic Theology
3. O. T. Criticism
4. N. T. Criticism
5. Practical Theology

Sixth Year

1. Church History
2. Systematic Theology
3. O. T. Criticism
4. N. T. Criticism
5. Practical Theology

Students who have Matriculation in Greek will take Greek 1 and 2 in the first two years, and a freely chosen class in place of Greek 2 in the third year.

In choosing options students must plan to complete three courses in each of two subjects by the end of the fourth year.

DETAILS OF COURSES OF INSTRUCTION

CLASSICS

PROFESSOR OF CLASSICS—H. L. Tracy, B.A., Ph.D.

ASSOCIATE PROFESSOR OF GREEK AND ROMAN HISTORY—L. E. Law, M.A.

LECTURERS IN CLASSICS—Mary L. Macdonnell, M.A.

H. S. Shurtleff, B.A., Ph.D.

A. A. Day, M.A.

CLASSICAL LITERATURE

CLASSICAL LITERATURE 1.

A general course open to those who wish to study in English translations the literature of Greece and Rome.

Topics for study will be as follows:

Classical Mythology.

Epic—Homer and Vergil.

Drama—Aeschylus, Sophocles, Euripides, Aristophanes.

Pastoral Poetry—Theocritus, Vergil.

Satire—Horace, Juvenal.

Biography and Philosophical Dialogue—Xenophon, Plato, Suetonius, Plutarch.

Literary Criticism—Aristotle, Horace, Quintilian.

Prescribed books:

1. In the Everyman Series (J. M. Dent and Sons): Aeschylus, Sophocles, Euripides, Aristophanes, Vergil's *Eclogues and Georgics*, Horace, Xenophon's *Memorabilia*, Plutarch's *Lives* (vol. III), *Classical Dictionary*.
2. Homer, *Iliad and Odyssey* (Modern Library), Vergil, *Aeneid* (World's Classics), *Bucolici Graeci* and *The Trial and Death of Socrates* (Golden Treasury Series), *Aristotle on the Art of Poetry*, Cooper (Ginn and Co.).

Reference books:

Jane Harrison, *Mythology*; the Loeb editions of Plautus, Terence, Herodes, Juvenal, Theophrastus, Suetonius, Quintilian; Tacitus, *Agricola* (Fyfe); *History of Ancient Greek Literature* (Murray); *Latin Literature* (Mackail).

Note 1. The prescribed books, though numerous, are inexpensive.

2. Extramural students who are within reach of a good library will find ready access to the reference books. Students not so situated should consult with the Extramural Department before registering.

Tuesday, Thursday, and Saturday at 9.

LATIN LANGUAGE AND LITERATURE

GENERAL NOTICE

For the Pass classes, Lewis' *Latin Dictionary for Schools* (Oxford University Press) is recommended, or Lewis' *Elementary Latin Dictionary* (Oxford University Press). Honours students must provide themselves with Lewis and Short's *Latin Dictionary* (Oxford University Press), and Allen and Greenough's *New Latin Grammar* (Ginn and Co.).

REGULATIONS

1. Latin 1 is prerequisite to Latin 2, and Latin 2 to all other courses.

2. A student taking Latin as one of his main subjects on a Pass Course will take Latin 1, 2, and 11 or Classical Literature 1.

3. For Honours in Latin, a student must take:

(a) Twelve courses for Major as follows:

Latin 1, 2, 10, 11, 15, 21 or Greek and Roman History 52, and Greek and Roman History 51, with two supporting courses: when Greek is the Minor, supporting courses will be Greek 10 and Greek and Roman History 52 (if not already chosen) or 53; when English is the Minor, supporting courses will be two of Greek and Roman History 53, an Honours course in History, and French 1 or German 1; when French is the Minor, supporting courses will be two of Greek and Roman History 53, an Honours course in History, and an Honours course in English. Latin 2 and 10 should be taken in the same session. Three Reading courses: when Greek is the Minor, Classics R 1 and two others; otherwise, Classics R 1, R 2, R 4.

(b) Five courses for Minor in Greek, French, English or Philosophy.

(c) Six compulsory general courses to complete the work for degree, as follows (it is recommended that Greek and Roman History 4 be taken as a free option):

With Minor in Greek or French: English 1, 2, Philosophy 1, one science, two free options.

With Minor in English: French 1 or German 1 or Greek 1, Philosophy 1, one science, three free options.

With Minor in Philosophy: English 1, 2, French 1 or German 1 or Greek 1, one science, two free options.

- (d) A Minor in Latin will normally consist of Latin 1, 2, 11, 15, and 21.
4. In each of Latin 10, 15, and 21 one hour per week will be devoted to lectures and exercises in syntax and composition.
5. For information in regard to Scholarships in Latin see page 55.
6. For details of the Course in Latin and French with Greek see page 80.

COURSES OF INSTRUCTION

LATIN 1. Translation and Interpretation of Prescribed Texts, Sight Translation, Prose Composition.

Texts:

Watt and Hayes, *Selections from Latin Authors* (London University Tutorial Press).

Latin Prose Composition, Tracy and Law (Clarke, Irwin and Co.).

A tutorial period will be given for the benefit of students who desire extra assistance.

Monday, Wednesday, and Friday at 10.

LATIN 2. Translation and Interpretation of Prescribed Texts, Sight Translation, Prose Composition.

Texts:

Cicero's Correspondence, Irvine (Cambridge, University Press).

Livy, Book I, Edwards (Cambridge, University Press).

Oxford Book of Latin Verse (School edition: Oxford, University Press).

Exercises in Latin prose composition will be assigned.

Extra-mural students should supply themselves with the *Classical Dictionary* in the Everyman series (J. M. Dent), and *Roman Literature*, Wilkins (Literature Primers: Macmillan).

The W. W. Near Scholarship of \$100 is awarded to the student standing highest in the course at the final examination.

Tuesday, Thursday, and Saturday at 11.

LATIN 10. LYRIC POETRY, LETTERS.

Texts:

Catullus, Merrill (Ginn and Co.).

Horace, *The Odes and Epodes*, Shorey and Laing (B. H. Sanborn and Co.).

Pliny, *Select Letters*, Prichard and Bernard (Oxford, University Press).

Tuesday, Thursday, and Saturday at 10.

LATIN 11. COMEDY, SATIRE, AND PASTORAL POETRY.

Texts:

Plautus, *Mostellaria*, Fay (Allyn and Bacon).

Terence, *The Comedies of Terence*, Ashmore (Oxford, University Press).

Juvenal, *Satires*, Duff (Cambridge, University Press).

Vergil, *Eclogues*; *P. Vergili Maronis Opera*, Sidgwick (Cambridge, University Press).

Tuesday, Thursday, and Saturday at 10.

LATIN 15. A BIOGRAPHICAL STUDY OF CICERO.

Texts:

Cicero, *Selected Letters*, Abbott (Ginn and Co.).

Cicero, *Brutus* (texte seul: Collection des Universités de France).

Cicero, *Pro Archia*, Reis, editio minor (Teubner).

Cicero, *De Natura Deorum*, Plasberg (Teubner).

Cicero, *Tusculanae Disputationes*, Pohlenz (editio minor: Teubner).

Monday, Wednesday, and Friday at 10.

LATIN 21. EPIC AND DIDACTIC POETRY.

Texts:

Vergil, *P. Vergili Maronis Opera*, Sidgwick (Cambridge, University Press).

Lucretius, Books I and III, Duff (Cambridge, University Press).

Tuesday, Thursday, and Saturday at 10.

GREEK LANGUAGE AND LITERATURE

GENERAL NOTICE

Liddell and Scott's *Greek Dictionary* (abridged edition) is recommended. A *Greek Grammar*, preferably that of Goodwin and Gulick, or Smyth, is necessary.

REGULATIONS

1. Greek A may be counted towards a degree under conditions specified in section 16 GENERAL REGULATIONS. Students who enter the University without matriculation in Greek, and yet desire to specialize in this subject, may complete their programme of work in the usual time. Such students will take Greek A in their first session, and Greek 1 in the summer immediately following. In this case, only one of these two courses may be counted towards the total number of courses required for a degree.

2. Students offering Greek as one of the main subjects on a Pass Course will take Greek 1, 2 and 11 *or* Classical Literature 1; *or* A, 1, and 2 if they have not matriculated in Greek.

3. For Honours in Greek a student must take:

(a) Twelve courses for Major as follows:

Greek 1, 2, 10, 11, 21, 26 *or* Greek and Roman History 52, and Greek and Roman History 51, with two supporting courses: Latin 10 and Greek and Roman History 53 if Latin is the Minor; Latin 2 and Politics 2 if Philosophy is the Minor. Greek 2 and 10 should be taken in the same session.

Three Reading courses: Classics R 1, R 3, and one other.

(b) Five courses for Minor in Latin or Philosophy.

(c) Six compulsory general courses to complete the work for degree (it is recommended that Greek and Roman History 4 be taken as a free option): With Latin as Minor: English 1, 2, Philosophy 1, one science, two free options.

With Philosophy as Minor: English 1, 2, Latin 1, one science, two free options.

(d) A Minor in Greek will normally consist of Greek 1, 2, 11, 21, 26 (*or* Greek and Roman History 51, when Latin is not the Major).

4. For information in regard to Scholarships in Greek see page 55.

5. For details of the Course in Latin and French with Greek see page 80.

COURSES OF INSTRUCTION

GREEK A. FOR BEGINNERS.

Texts:

Donaldson, *A First Greek Course* (Cambridge University Press).

Greek Grammar, Goodwin and Gulick (Ginn and Co.).

The object of the course is to prepare students for entering the regular classes in Greek, and to cover an amount of work as nearly as possible the equivalent of Matriculation Greek. The elements of the language will be the chief concern.

Monday at 1. Tuesday, Thursday, and Saturday at 9.

GREEK 1.

Texts:

Freeman and Lowe, *Greek Reader* (Oxford, Clarendon Press).

The Iliad, I-XII, Leaf and Bayfield (Macmillan).

The Acts of the Apostles. Westcott and Hort's *New Testament*.

Pitman, *Greek Prose Composition* (Macmillan).

Monday, Wednesday, and Friday at 11.

GREEK 2.

Texts:

Euripides, *Alcestis*, Earle (Macmillan).

Plato, *Apology*, Stock (Oxford, Clarendon Press).

The Acts of the Apostles. Westcott and Hort's *New Testament*.

North and Hillard, *Greek Prose Composition* (Rivingtons).

The MacLennan Scholarship of \$20 is awarded to the student standing highest in the course at the final examination.

Monday, Wednesday, and Friday at 11.

GREEK 10. EPIC POETRY, ORATORY.

One hour each week will be devoted to the study of morphology, the other two to the reading of Homer and Demosthenes.

Texts:

Demosthenes, *Olynthiacs*, Abbott and Matheson (Oxford, Clarendon Press).

Homer, *Odyssey I-XII*, Merry (Oxford, Clarendon Press).

Goodwin and Gulick, *Greek Grammar* (Ginn and Co.).

Tuesday, Thursday, and Saturday at 9.

GREEK 11. HISTORIANS, COMEDY.

Texts:

Thucydides, Books I and II, Marchant (Macmillan).

Aristophanes, *Acharnians*, and *Knights*, Merry (Oxford, Clarendon Press).

Lectures will be given on syntax.

Tuesday, Thursday and Saturday at 9.

GREEK 21. TRAGEDY, PHILOSOPHY.

Texts:

Sophocles, *Antigone*, Jebb (Abridged edition; Cambridge, Pitt Press).

Plato, *Republic*, Adam, Vol. 1 (Cambridge, University Press).

Monday, Wednesday, and Friday at 11.

GREEK 26.

A history of ancient philosophy and the development of modern thought. This course is for the current session the same as Philosophy 10 and will be given by the Department of Philosophy. Philosophy 1 is prerequisite.

READING COURSES IN CLASSICS

Students are urged to cover as much as possible of their Reading Courses during vacation. Instead of the course prescribed as R 5 below, a special syllabus of reading will be assigned to students who wish to work in some particular field.

- R 1. CLASSICAL TRAGEDY. Aeschylus, *Agamemnon*; Sophocles, **Oedipus Tyrannus*; Euripides, *Hippolytus*, **Medea*; Seneca, *Oedipus*, *Phaedra*; Corneille, *Médée* or *Oedipe*; Racine, *Andromaque*, *Phèdre*; Voltaire, *Oedipe*, *Oreste*; Dryden, *Oedipus*.
Sheppard, *Greek Tragedy*; Murray, *Ancient Greek Literature*; Lucas, *Seneca and Elizabethan Tragedy*; Wright, *French Classicism*; de Julleville, *Le Théâtre en France*; Faguet, *Propos de Théâtre*, essays on Racine in vols. 1 and 3; Vaughan, *Types of Tragic Drama*; Lucas, *Tragedy*; Nettleton, *English Drama of the Restoration and Eighteenth Century*; *Cambridge History of English Literature*, vol. VIII, the relevant chapters.

Classics students will read the plays marked * in Greek. Latin-French students will select for reading in the original any two of the French plays listed above. The remainder, in each case, will be studied in translations.

R 2. LIFE AND LETTERS IN THE EARLY EMPIRE.

The following are to be read in the original:

Tacitus, *Agricola* (Furneaux, Oxford University Press).

Juvenal, *Satires* (Duff, Cambridge University Press), 1, 3, 5, 7, 8, 10, 13.

Pliny, *Selected Letters* (Prichard and Bernard, Oxford University Press).

The above are to be supplemented by readings in the following books:

Capes, *The Early Empire*.

Dill, *Roman Society from Nero to Marcus Aurelius*.

Special study should be made of such topics as the following: the social orders, freedmen and their influence in society, slavery, the sources of private wealth, clientship, the Christians in Rome. References to these subjects may be found in the books listed below.

Friedländer, *Roman Life and Manners* (translated by Freese).

Davis, *The Influence of Wealth in Imperial Rome*.

Duff, *Freedmen in the Early Roman Empire*.

Rostovtzeff, *Economic and Social History of the Roman Empire*.

Students may make either an exhaustive study of one or two of these topics, or a general survey of the prescribed period.

R 3. THE ODYSSEY OF HOMER.

Homer, *Odyssey*, ed. W. W. Merry (2 vols., Oxford, Clarendon Press).

D. B. Munro, *A Grammar of the Homeric Dialect*.

Victor Bérard, *Did Homer Live?*

R. C. Jebb, *Homer: An Introduction to the Iliad and the Odyssey*.

W. J. Woodhouse, *The Composition of Homer's Odyssey*.

Walter Leaf, *Homer and History*.

T. D. Seymour, *Life in the Homeric Age*.

Andrew Lang, *Homer and the Epic* or Gilbert Murray, *The Rise of the Greek Epic*.

R 4. GREEK AND ROMAN RELIGION, ART, SOCIAL LIFE, LITERATURE, selected topics.

A full bibliography cannot be given here. The basic books in the various fields are listed; others will be recommended to students when they have chosen their special topics. Religion: Moore, *The Religious Thought of the Greeks*; Warde Fowler, *The Religious Experience of the Roman People*. Art: P. Gardner, *Principles of Greek Art*; Walters, *The Art of the Romans*. Social Life: Glotz, *Ancient Greece at Work*; Warde Fowler, *Social Life at Rome*. Literature: Murray, *History of Ancient Greek Literature*; Mackail, *Latin Literature*.

R 5. HERODOTUS AND LIVY. Any four books of each author, in the original, may be offered, after consultation with the Department.

GREEK AND ROMAN HISTORY

REGULATIONS

The courses listed below, together with History 1 or Politics 2, may be taken as a Minor with Majors in History, Politics, French, etc. The Minor will then consist of History 1 (or Politics 2), Greek and Roman History 4, 51, 52, 53. Students may choose either History 1 or Politics 2 as they wish, but if History 1 is taken in the Major, Politics 2 must be taken here.

In these courses the comparative method will be largely used. Stress will be laid on similarities and differences between the ancient order and the modern, particularly in respect of social institutions.

COURSES OF INSTRUCTION

GREEK AND ROMAN HISTORY 4. A Survey of Greek and Roman Society. An introductory account of Greek and Roman political and social development; the period from the rise of the Greek city-states to the death of Constantine will be studied and the student will be expected to pay particular attention to those aspects of Greek and Roman society which are most important for an appreciation of modern political ideas and institutions.

Text: Laistner, *A Survey of Ancient History* (Heath).

Extramural students residing in centres lacking a good library are required to buy the following books:

Laistner, *A Survey of Ancient History* (Heath).

Grote, *A History of Greece* (revised by Mitchell and Caspari: Routledge)

Thucydides, *History of the Peloponnesian War* (Everyman's Library)

Marsh, *The Founding of the Roman Empire* (University of Texas Press)

Longden, *History of the Roman World from 30 B.C.-180 A.D.* (Methuen).

Certain other works dealing with special problems or aspects of Greek and Roman History will be available to extramural students through the lending facilities of the University Library.

Tuesday, Thursday, and Saturday at 11.

GREEK AND ROMAN HISTORY 51. Advanced Studies in Institutions.

In this course an attempt will be made to deal with certain ancient institutions which, through survival, imitation, or incidental analogy, are relevant to the study of subsequent history and contemporary affairs.

Hours to be arranged.

GREEK AND ROMAN HISTORY 52. Greek Political Thought.

Discussion of essays on political theory with special reference to Plato and Aristotle.

Hours to be arranged.

GREEK AND ROMAN HISTORY 53.

Given in alternate years with Greek and Roman History 52; next offered 1937-8.

Graduate Courses

Lecture courses and directed special studies will be offered in Latin or Greek or Greek and Roman History as needed.

HEBREW

PROFESSOR—Rev. H. A. Kent, M.A., D.D., F.R.S.A.

REGULATIONS

Students proceeding to Theology may, with the permission of the Board of Studies, substitute Hebrew 1 for a course in Latin.

COURSES OF INSTRUCTION

HEBREW 1.

The aim of this class is to enable students to read any of the narrative parts of the Hebrew Scripture. The Christmas term is devoted entirely to thorough study and practice of grammar and exercises. After the Christmas vacation parts of Genesis and Samuel, or other books, will be read, in addition to the work in grammar and composition.

Text-books: Davidsen, *Hebrew Grammar* (20th or later editions), pages 1-113. Kittel, *Biblia Hebraica*, or *Hebrew Bible*, issued by B. and F. Bible Society.

Lexicons. Brown-Driver-Briggs, or Fonolexika Langenscheidt.

Tuesday, Thursday, and Friday at 1.

HEBREW 2.

This class aims at more advanced work in the Hebrew language than that attempted in course 1. The prophetic and poetic literature of the Old Testament will be studied and lectures given on Hebrew Syntax and the principles of Textual Criticism of the Old Testament. Students will be practised regularly in translating English into Hebrew, both viva voce and in written exercises.

Text-books: Davidson, *Hebrew Grammar*, pages 113-236, *Hebrew Syntax*. *Hebrew Bible* and *Lexicon* as in course 1.

Tuesday, Thursday, and Saturday at 8.

BIBLICAL LITERATURE

PROFESSOR—Rev. H. A. Kent, M.A., D.D., F.R.S.A.

REGULATIONS

1. Courses 1 and 2 are offered in alternate years. Only one of them may be counted towards a degree.

2. Subject to the provision of Section 1, the courses offered below are open to any student who has satisfied the requirements for concentration and distribution but needs one or more classes to make the necessary total for a degree.

BIBLICAL LITERATURE 1. OLD TESTAMENT LITERATURE AND HISTORY.

The beginnings of Hebrew literature; ballads; war-songs; folklore and Saga; historical prose; the literary sources of the Hexateuch and historical books; the origin and development of prophecy; Hebrew poetry and wisdom literature; the Apocryphal and Apocalyptic writings. Hebrew political history down to the Maccabean period, and the relation of the Hebrew people to the surrounding nations of antiquity.

Offered in 1936-1937, but not in 1937-1938.

Text-books:

Bewer, *Literature of the Old Testament* (Columbia University Press).

Dinsmore, *The English Bible as Literature* (Houghton Mifflin Company).

Tuesday, Thursday, and Friday at 1.

BIBLICAL LITERATURE 2. NEW TESTAMENT LITERATURE AND HISTORY.

Origin of New Testament writings: Codices and Manuscripts; the Latin Bible; the English Versions; the Gospels studied as the literary sources of the teaching of Jesus; the Synoptic and Johannine Problems; the life and letters of St. Paul; the Christian Apocalypses; the social and religious conditions in the Roman Empire and the spread of Christianity up to the end of the first century.

Offered in 1937-1938, but not in 1936-1937.

GERMAN LANGUAGE AND LITERATURE

PROFESSOR—Heinrich Henel, Ph.D.

ASSISTANT PROFESSOR—Hilda C. Laird, B.A.

REGULATIONS

1. German A may be counted towards a Pass degree or as an optional course on Honours Courses in subjects other than German. It may not be counted towards a Major or Minor in German. Students who enter the University without Matriculation in German and yet desire to specialize in this subject may, however, complete their programme of work in the usual time by taking German A during their first winter session and German 1 in the following summer.

2. Students offering German as one of the three main subjects on a Pass Course should take German 1, 2 and 10 (or A, 1 and 2 if not matriculated in German). Additional courses in German may be taken by pass students with the consent of the Department.

3. For a Major in German, a student must take:

(a) Twelve courses for the Major, as follows:

Seven courses in German: 1, 2, 10, and four further Honours courses, with two supporting courses chosen from Latin 2, Philosophy 10 and either History 12 or History 24.

Three Reading courses, R 1, R 2, R 3.

(b) Five courses for the Minor in French, English, Latin, Spanish, History or Philosophy.

(c) Six compulsory general courses to complete the work for degree:

With French, Spanish or History as Minor: English 1, 2, Latin 1, Philosophy 1, one science, one free option.

With English as Minor: Latin 1, Philosophy 1, one science, three free options.

With Latin as Minor: English 1, 2, Philosophy 1, one science, two free options.

With Philosophy as Minor: English 1, 2, Latin 1, one science, two free options.

Note: History 1 and English 3 are recommended as free options.

4. A Minor in German will normally consist of German 1, 2, 10 and two further Honours courses.

5. Students taking Honours in German are advised to read during the summer vacation as many as possible of the texts prescribed for the courses in which they intend to register during the following winter.

6. Students should provide themselves at once with a dictionary, at first James' or Cassell's English-German Dictionary, then an all German one such as Hoffman's *Wörterbuch der deutschen Sprache*.

7. For information in regard to Scholarships in German see page 57.

GERMAN A. PREPARATORY GERMAN.

This course is intended to meet the needs of students who enter the University with little or no knowledge of German. It may be taken by students who need it to complete their Matriculation, or by those who desire to pursue a course in which German textbooks or works of reference are prescribed or recommended. The requirements correspond in a general way to those for Pass Matriculation.

The work comprises drill on pronunciation, a study of the elements of grammar, the reading of easy literature, dictation, oral and written composition.

Text-books:—

Chiles and Wiehr, *First Book in German* (Ginn).

Alexis and Pfeiler, *In Deutschland* (Midwest).

Koischwitz, *Deutsche Fibel* (Crofts).

Tuesday, Thursday, Saturday at 10, Monday at 4.

Professor Laird.

GERMAN 1. FIRST YEAR GERMAN.

The work includes the reading of texts, a more advanced study of grammar and syntax (in connection with the texts read and the written and oral exercises), memorizing of poems, writing from dictation, translation at sight, composition and oral practice.

Text-books:—

Chiles, *German composition and conversation* (Ginn).

Dodge and Viereck, *Stimmen aus Deutschland* (Holt).

Fleissner, *Der junge Goethe* (Crofts).

Fleissner, *Kleine Anthologie* (Crofts).

Mann, *Tonio Kröger* (Crofts).

Tuesday, Thursday, and Saturday at 9.

Professor Laird.

GERMAN 2. SECOND YEAR GERMAN.

The work consists of a more critical reading of modern literature, both prose and verse, oral and written composition based on this literature, and a more advanced study of grammar and syntax. Extramural students, in order to be credited with this course, must satisfy the oral requirements.

Text-books:—

Otto, *German Conversation Grammar* (Groos).

Diamond, *Mitten im Leben* (Holt).

Kaufmann and Balduf, *Inductive Readings in German*, Book III (Chicago).

Raabe, *Die schwarze Galeere* (Oxford).

Keller, *Kleider machen Leute* (Heath).

Schiller, *Wilhelm Tell* (Holt).

Extramural students are advised to purchase also:

Hastings, *Studies in German Words and their Uses* (Heath).

Leather, *Common Errors in German* (Dent).

Monday, Wednesday, and Friday at 10.

Professor Henel.

GERMAN 10. AN INTRODUCTION TO HONOURS IN GERMAN.

This course is open to both Pass and Honours students. It should be the first Honours course taken. Students majoring in German should register in courses 2 and 10 in the same year.

Text-books:

Otto, *German Conversation Grammar* (Groos).

Busse and Dexter, *Aus deutschen Blättern* (Crofts).

Hebbel, *Agnes Bernauer* (Oxford).

Schiller, *Jungfrau von Orleans* (Ginn).

Sommerfeld, *Deutsche Lyrik 1880-1930* (Junker und Dünnhaupt).

A German Periodical (to be used in the second term).

Extramural students are advised to purchase also:

Purdie, *F. Hebbel: A Study of his Life and Works* (Oxford).

Harris, *The Nature of English Poetry* (Dent).

Hastings, *Studies in German Words and their Uses* (Heath).

Leather, *Common Errors in German* (Dent).

Monday, Wednesday, and Friday at 11.

Note: This class will be changed to a different hour if one can be found which will be more convenient for all students wishing to register in it.

Professor Henel.

GERMAN 12. HISTORY OF GERMAN LITERATURE FROM THE BEGINNING TO 1700.

Extramural students are required to obtain their own copies of the reference books listed below. The following texts will serve as a basis for essays and discussions.

Text-books:

- Thomas, *An Anthology of German Literature* (Heath).
 Wolfskehl und von der Leyen, *Älteste deutsche Dichtungen* (Insel 432).
 Legerlotz, *Der Arme Heinrich und König Rother* (Velhagen).
 Walther von der Vogelweide, *Gedichte und Sprüche* (Insel 105).
 Meier Helmbrecht (Insel 304).
 Saaz, *Der Ackermann und der Tod* (Insel 198).
 Spitta, *Kirchenlied, I. Mittelalter und Reformation* (Götschen 602).
 Hans Sachs, *Drei Fastnachtsspiele* (Insel 46).
Deutsche Literaturdenkmäler des 17. und 18. Jahrhunderts, III. Drama (Götschen 754).
 Grimmelshausen, *Simplizissimus* (Velhagen).

Reference books:

- Robertson, *A History of German Literature*. Revised edition (Blackwood).
 Golther, *Die deutsche Dichtung im Mittelalter, 800-1500* (Metzler).

Tuesday, Thursday, and Saturday at 9.

Professor Henel.

GERMAN 14a. LESSING.

Text-books:

- Werner, *Lessing* (Quelle und Meyer).
 Lessing, *Minna von Barnhelm* (Holt).
Emilia Galotti (Heath).
Nathan der Weise (Ginn).
Laokoon (Oxford).
Hamburgische Dramaturgie, selections (Holt).

Books for reference and general reading will be recommended during the course.

Monday, Wednesday, and Friday at 10.

Professor Laird.

GERMAN 15b. GOETHE.

Text-books:

Goethe, *Die Leiden des jungen Werthers* (Oxford).

Götz von Berlichingen (Ginn).

Egmont (Holt).

Iphigenie auf Tauris (Holt).

Torquato Tasso (Ginn).

Poems, selections (Holt).

Books for reference and general reading will be recommended during the course.

Monday, Wednesday, and Friday at 10.

Professor Laird.

The following courses are not offered in 1936-37, but will be given in 1937-38:

GERMAN 17a. SCHILLER.

GERMAN 18b. NINETEENTH CENTURY GERMAN DRAMA.

GERMAN 19a. GOETHE'S „FAUST“.

GERMAN 20b. GERMAN ROMANTICISM.

READING COURSES IN GERMAN:

A general knowledge of the development of German literature during the periods covered by the courses R 2 and R 3 will be required, as well as first-hand knowledge of the text-books prescribed.

R 1. DEUTSCHE GESCHICHTE.

Text-books:

Pinnow, *Deutsche Geschichte* (Singer).

Treitschke, *Deutschland nach dem dreissigjährigen Krieg* (Reclam 6722/23).

Treitschke, *Der Befreiungskrieg* (Reclam 6824/25).

Brandenburg, *Die deutsche Revolution 1848* (Velhagen & Klasing).

Ranke, *Deutsche Männer* (Insel 225).

Lamprecht, *Portraitgalerie aus der deutschen Geschichte* (Reclam 5181/82).

Steinhausen, *Kulturgeschichte der Deutschen im Mittelalter* (Velhagen & Klasing).

Steinhausen, *Kulturgeschichte der Deutschen in der Neuzeit* (Velhagen & Klasing).

Gooch, *Germany* (Benn).

Reference Works:

- Cambridge Modern History.
 Henderson, *A short history of Germany*.
 Bryce, *The Holy Roman Empire*.
 Reddaway, *Frederick the Great and the rise of Prussia*.
 Bithell, *Germany, a companion to German studies*.
 Steinhäuser, *Geschichte der deutschen Kultur*.
 Mühseler, *Deutsche Kunst im Wandel der Zeiten*.
 Plötz, *Hauptdaten der Weltgeschichte*.
 Students are advised to consult also
 Spruner-Menke, *Hand-Atlas für die Geschichte des Mittelalters und der neueren Zeit*.
 Robertson and Bartholomew, *Historical Atlas of Modern Europe*.

R 2. DER REALISMUS IN DEUTSCHLAND.

Text-books:—

- Deutsche Erzähler (Insel). Anthology. Read:
 Droste-Hülshoff, *Die Judenbuche*.
 Gottfried Keller, *Spiegel, das Kätzchen*.
 Karl Immermann, *Der Oberhof*.
 Theodor Storm, *Immensee* (Insel 246).
 Paul Heyse, *L'Arrabiata*.
 Otto Ludwig, *Zwischen Himmel und Erde*.
 Wilhelm Raabe, *Die Chronik der Sperlingsgasse*.
 Gustav Freytag, *Die Brüder vom deutschen Haus*.
 Theodor Fontane, *L'Adultera* (Insel 170).
 C. F. Meyer, *Die Versuchung des Pescara*.

References:—

- J. G. Robertson, *A History of German Literature*.
 Hugo Bieber, *Der Kampf um die Tradition*.
 R. M. Meyer, *Literatur des 19. Jahrhunderts*.

R 3. DIE LETZTEN FÜNFZIG JAHRE DEUTSCHER LITERATUR.

Text-books:—

- Jethro Bithell, *German Literature from 1880 to 1931* (in "Germany, A Companion to German Studies", Methuen).
 Hermann Sudermann, *Frau Sorge*.
 Gerhart Hauptmann, *Die Weber* (Fischer). (Largely in dialect; consult English translation, if necessary).
 Gerhart Hauptmann, *Der Biberpelz*.

- Hugo von Hofmannsthal, *Der Tor und der Tod* (Insel 28).
 Thomas Mann, *Die Buddenbrooks* (Fischer).
 Hermann Hesse, *Unterm Rad* (Fischer).
 Rainer Maria Rilke, *Cornet Christoph Rilke* (Insel 1).
 Georg Kaiser, *Die Bürger von Calais*.
 Leonhard Frank, *Die Ursache* (Fischer).
 Franz Werfel, *Der Abituriententag* (Zsolnay).
 Oswald Spengler, *Preussentum und Sozialismus* (C. H. Beck).

References:—

- Paul Fechter, *Deutsche Dichtung der Gegenwart*.
 Hans Naumann, *Die deutsche Dichtung der Gegenwart*.
 Wolfgang Stammler, *Deutsche Literatur vom Naturalismus bis zur Gegenwart*.

GRADUATE COURSES

Lecture courses and Directed Special Studies will be arranged for by the Department as needed. The following lecture courses are obligatory:

GERMAN 101a. GESCHICHTE DER DEUTSCHEN SPRACHE.

Text-books:

- Kirk, *Introduction to the Historical Study of New High German* (Manchester University Press).
 Braune, *Abriss der althochdeutschen Grammatik* (Niemeyer).

GERMAN 102b. MITTELHOCHDEUTSCH.

Text-book:

- Bachmann, *Mittelhochdeutsches Lesebuch* (Beer).

FRENCH

PROFESSOR—P. G. C. Campbell, M.A., Docteur de l'Université de Paris.

ASSOCIATE PROFESSORS—M. Tirol, O.A., L. ès L., Ph.D.

W. M. Conacher, B.A., D. ès L.

LECTURER—H. Walpole, M.A.

INSTRUCTOR—Jeanne C. McConnell, Brevet Supérieur, C.A.P.

REGULATIONS

1. French 1 is a prerequisite of French 2 and French 2 of all other courses.

2. Students offering French as one of their main subjects on a Pass Course will take 1, 2 and 3. By special permission an Honour class may be substituted for 3.

3. For Honours in French, a student must take:

(a) Twelve courses for Major as follows:

Eight courses in French: 1; 2; 10 and 11 in the first year of Honours, 12 and 21 in the second year, 20 and 22 in the third year, with one supporting course chosen from Latin 2 or Greek and Roman History 4, Classical Literature, English 18, History 12 or 16.

Those registered before 1936-7 on this Honours Course will follow the 1935-6 Calendar.

(b) Three Reading courses in French, R 1, R 2, R 3 or 4.

(c) Five courses for Minor in Latin, German, Spanish, English, History, or Greek and Roman History.

(d) Six compulsory general courses to complete the work for degree:
With Latin as Minor: English 1, 2, Philosophy 1, one science, two free options.

With German as Minor: English 1, 2, Latin 1, Philosophy 1, one science, one free option.

With Spanish as Minor: English 1, 2, Latin 1, Philosophy 1, one science, one free option.

With English as Minor: Latin 1, Philosophy 1, one science, three free options.

With History as Minor: English 1, 2, Latin 1, Philosophy 1, one science, one free option.

- (e) A Minor in French will consist of French 1, 2, 10, 11, and 12, taken in different years and in the order given.

The five comprehensive examinations will be: (i) Prose and Unseen translation, (ii) Composition in French, (iii) Literature, life and institutions to 1800, (iv) Literature, life and institutions after 1800, (v) oral.

4. All oral examinations must be taken at the University. They are compulsory for French 2, and to complete a Major or a Minor in French.

5. Honour groups for conversation and phonetic study will meet at hours to be arranged at the beginning of term. This work is compulsory in each year.

6. For the Sir Wilfrid Laurier Memorial Scholarship of \$80, awarded for proficiency in French conversation, see SCHOLARSHIPS.

7. For the French Government Medal, see MEDALS.

8. For information in regard to Scholarships in French see p. 57.

9. For Exchange Scholarship to France, see p. 64.

10. For details of the Course for Honours in Latin and French with Greek, see p. 80.

COURSES OF INSTRUCTION

FRENCH 1. FIRST YEAR FRENCH.

Audoux, *Marie Claire à Villevieille* (Oxford University Press).

Daudet, *Le Petit Chose* (Ginn).

Acremant, *Ces dames aux chapeaux verts* (Ginn).

Dix Contes modernes (Ginn).

Richardson, *Outline of French Grammar* (Appleton).

Ritchie & Moore, *Junior Manual of French Composition* (Cambridge University Press),

but for Extramural students:—

Duhamel and Minssen, *Primer of French Prose Composition* (Rivingtons).

Monday, Wednesday, and Friday at 11.

Tuesday, Thursday, and Saturday at 9.

Professor Conacher, Mr. Walpole.

FRENCH 2. SECOND YEAR FRENCH.

Beaumarchais, *Le Barbier de Séville* (Ginn).

Bazin, *La Terre qui meurt*.

V. Hugo, *La Chute* (American Book Co.)

French Short Stories (Nelson).

French Poetry (Dent).

Queen's University French Composition Book.

Moore and Slight, *An Intermediate French Course*, Part 3,
(Blackie).

For Prose:—

Ritchie and Moore, *Junior Manual of French Composition*
(Cambridge University Press).

but for Extramural students:—

Duhamel and Minssen, *French Prose Composition for Middle*
Forms (Rivingtons).

The oral examination will be held during the term. Extramural students, in order to be credited with this course, must satisfy the oral requirements at the University, either during the term or at the Summer School.

Monday, Wednesday, and Friday at 10.

Tuesday, Thursday, and Saturday at 10.

Professors Campbell and Tirol, and Mr. Walpole.

FRENCH 3. THIRD YEAR PASS.

Lucas, *Book of French Verse* (Oxford University Press).

Hervieu, *La Course du Flambeau* (Heath).

Zola, *La Débâcle* (Heath).

Loti, *Pêcheur d'Islande* (Holt).

Rolland, *L'Aube* (Holt).

Merimée, *Colomba* (Holt).

Kastner and Marks, *New Course of French Composition*. Book 2.
Intermediate (Dent).

Monday, Wednesday, and Friday at 10.

Tuesday, Thursday, and Saturday at 10.

Professor Conacher and Mr. Walpole.

FRENCH 10. INTRODUCTION TO HONOURS.

Prose, Translation, Literature, and Survey of History.

Texts:

Balzac, *Cinq Scènes de la Comédie humaine* (Heath).

Erckmann-Chatrian, *Le Trésor du vieux Seigneur* (Holt).

Bazin, *Les Oberlé* (ed. Spiers, Heath).

Pierron et Pruvot, *L'Évolution française* (André Lesot).

Lucas, *Book of French Verse* (Oxford University Press).
 Mansion, *A Grammar of Present Day French* (Harrap).
Le Petit Larousse illustré.

Monday, Wednesday, and Friday at 11.

Professor Campbell.

FRENCH 11. LANGUE FRANCAISE: DIX-NEUVIEME SIECLE.

Explication de Textes; Composition.

A. France, *Le Crime de Sylvestre Bonnard* (Holt).
 Loti, *Pages choisies* (Delagrave).
 Daudet, *Lettres de mon moulin* (Nelson).
 Augier et Sandeau, *Le Gendre de M. Poirier* (Dent).
 Dumas fils, *La Dame aux Camélias* (Calman Lévy).
 Lucas, *Book of French Verse* (Oxford University Press).
Nineteenth Century French Prose (Century Co.).

Tuesday, Thursday, and Saturday at 11.

Professor Tirol.

FRENCH 12. NINETEENTH CENTURY LITERATURE.

V. Hugo, *Hernani* (Blackie).
 Flaubert, *Trois Contes* (Nelson).
 Musset, *On ne badine pas avec l'amour* (Heath).
 Balzac, *Curé de Tours* (Heath).
 Michelet, *Jeanne d'Arc* (Hachette).
 Daudet, *L'Arlésienne* (Century Co.).
 Rostand, *Chantecler* (Fasquelle).
 Lucas, *Book of French Verse* (Oxford University Press).

Tuesday, Thursday, and Saturday at 11.

Professor Conacher.

FRENCH 20. L'ANCIEN RÉGIME ET LA LITTÉRATURE.

Taine, *L'Ancien Régime* (ed. Giese, Heath).
 La Fontaine, *Fables* (Dent).
 LeSage, *Gil Blas* (Heath).
 Rousseau, *Vie et Oeuvres* (Heath).
 Marivaux, *Le jeu de l'Amour et du Hasard* (Heath).
 R. Rolland, *Le jeu de l'amour et de la mort* (Longmans).
 Jullian, *Extraits des Historiens du xix^e Siècle* (Hachette).

Monday, Wednesday, and Friday at 11.

Professor Conacher.

FRENCH 21. LANGUE FRANCAISE: ETUDES CONTEMPORAINES.

Explication de Textes; Composition.

R. Boylesve, *L'enfant à la balustrade* (Nelson).Duhamel, *Confessions de minuit* (Century Co.).Pagnol, *Marius, Fanny* (N. R. F.).*Modern French Prose* (Nelson).Jules Romains, *Mort de quelqu'un* (Figuière).Grant, *French Poetry of the Nineteenth Century* (Macmillan).Moore and Slight, *Intermediate French Course*, Part 3

(Blackie).

Ritchie and Moore, *Manual of French Composition* (Cambridge University Press).

Monday, Wednesday, and Friday at 11.

Professor Tirol.

FRENCH 22. SEVENTEENTH CENTURY (with special reference to the drama).

Corneille, *Nicomède* (Classiques Larousse).Racine, *Mithridate* (Didier).A thorough knowledge of *Macbeth* and *King Lear* will be required.

Monday, Wednesday, and Friday at 9.

Professor Campbell.

FRENCH 24. (a) FRENCH LIFE AND ART.

Professor Campbell.

(b) LA LANGUE FRANCAISE: TENDANCES ACTUELLES.

French Prose of To-day (Sidgwick and Jackson).*French Poems of To-day* (Sidgwick and Jackson).

Hours to be arranged.

Professor Tirol

READING COURSES IN FRENCH:

Note: Before beginning any of these Reading Courses, which may be taken during the summer, students must consult the Professor in charge of the Course.

R 1. Outlines of French Literature. Text-books (those starred will be purchased by the student):

*Des Granges, *Histoire Illustrée de la Littérature Française* (Hatier).

La Chanson de Roland. Tristan et Iseult (in modern French versions).

Villon, and Rabelais (in English translations).

*Vianey, *Chefs-d'oeuvre poétiques du XVI^e siècle* (Hatier).

Molière, *Le Médecin malgré lui. Le Bourgeois Gentilhomme.*

Racine, *Andromaque.*

*La Fontaine, *Fables* (Dent).

Voltaire (edit. R. L. G. Ritchie. Nelson).

Beaumarchais, *Le Barbier de Séville.*

Chateaubriand, *Atala.*

Lucas, *Book of French Verse* (Oxford University Press).

Professor Campbell.

R 2. The Novel of the Nineteenth Century—a Critical Study

Prévost, *Manon Lescaut.*

Rousseau, *La Nouvelle Héloïse* (selections).

Chateaubriand, *Atala, René.*

de Staël, *Corinne.*

Victor Hugo, *Notre Dame de Paris, Les Misérables* (selections).

Stendhal, *La Chartreuse de Parme.*

Mérimée, *Colomba.*

Balzac, *Eugénie Grandet, Le Père Goriot, Le Curé de Tours, Les Paysans, Les Chouans.*

George Sand, *La Mare au Diable, Indiana.*

Gustave Flaubert, *Mme. Bovary*, and either of *Salammbô* or *l'Education Sentimentale.*

de Goncourt, *Germinie Lacerteux.*

Emile Zola, two of: *L'Assommoir, Lourdes, La Débâcle, La Faute de l'Abbé Mouret.*

Anatole France, *Les Dieux ont soif.*

Pierre Loti, *Pêcheur d'Islande.*

Romain Rolland, *Jean Christophe* (selections).

Professor Conacher.

R 3. The Evolution of Thought in the Eighteenth Century.

Reference Books:

J. J. Texte, *J. J. Rousseau et le Cosmopolitisme Littéraire.*

Mornet, *Origines Intellectuelles de la Révolution Française.*

Texts:

Faguet, *XVIII^{ème} Siècle.*

Des Granges, *Histoire illustrée de la Littérature Française.*

Montesquieu, *Morceaux Choisis.*

Voltaire, *Siècle de Louis XIV* (Hachette).

Romans Choisis (Larousse).

Pages Choiesies (Armand Colin).

J. J. Rousseau, *Emile*.

Confessions.

Diderot, *Extraits* (Hachette).

l'Abbé Prévost, *Manon Lescaut*.

Lettres du XVIIIème Siècle (Hachette).

Beaumarchais, *Mariage de Figaro*.

Orateurs Politiques de la France (Hachette).

R 4. French Life and Institutions.

(may be substituted for R 3).

Professor Tirol.

GRADUATE COURSES

Lecture courses: 100, 105, 110, and 115. If only one of these is chosen it must be 110 or 115.

Directed Special Studies to be determined upon consideration of the candidate's previous Course.

FRENCH 105.	FRENCH CLASSICAL TRAGEDY.	Professor Campbell.
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FRENCH 110.	OLD FRENCH.	Professor Campbell.
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FRENCH 115.	MIDDLE FRENCH.	Professor Campbell.
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FRENCH 120.	FRENCH-CANADIAN LITERATURE.	Professor Tirol.
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SPANISH AND ITALIAN LANGUAGES AND LITERATURE

PROFESSOR—J. H. Brovedani, D-ès-L.

LECTURER—T. J. Lanigan, S.B.

SPANISH

REGULATIONS

1. Spanish A may be counted towards a Pass degree or as an optional course on Honours Courses in subjects other than Spanish. It may not be counted towards a Major or Minor in Spanish. Students who enter the University without Matriculation in Spanish and yet desire to specialize in this subject may, however, complete their programme of work in the usual time by taking Spanish A during their first winter session and Spanish 1 in the following summer.

2. Spanish A is a prerequisite to Spanish 1 and Spanish 1 is a prerequisite to all other courses.

3. Students making Spanish one of the three main subjects under the Pass Course will take A, 1, 2, or 6 (with Spanish Matriculation 1, 2, and 6 or 10).

4. For Honours in Spanish, a student must take:

(a) Twelve courses for Major as follows:

Seven courses, Spanish 1, 2, 10, 22, 24, 30, Italian 1, with two supporting courses to be selected from the following four: Latin 2, French 2, an Honours course in English and History 24, (for which History 1 and 2 are not prerequisites).

Three Reading courses in Spanish, R 1, R 2, R 3.

(b) Five courses for Minor in French, German, English, or Latin.

(c) Six compulsory general courses to complete the work for degree:

With French as Minor: English 1, 2, Latin 1, Philosophy 1, one science, one free option.

With German as Minor: English 1, 2, Latin 1, Philosophy 1, one science, one free option.

With English as Minor: Latin 1, French 1 or German 1 or Greek 1, Philosophy 1, one science, two free options.

With Latin as Minor: English 1, 2, French 1 or German 1 or Greek 1, Philosophy 1, one science, one free option.

5. On the Course for Honours the marks in Italian will be averaged with those of the advanced courses in Spanish and a standing of 66% over all will be required.

6. For information in regard to Scholarships in Spanish see p. 56.

7. Reference Books:

DICTIONARIES: Velázquez, *English-Spanish* (Appleton), or Cuyás, *English-Spanish* (Appleton), which is less expensive. Honour students are strongly recommended to use also La Fuente, *Diccionario ilustrado*, written entirely in Spanish, and Alemany, *Diccionario de la lengua española*.

GRAMMARS: For First and Second year Students: Ramsay, *Book of Modern Spanish*. For advanced students: Bello-Cuervo, *Gramática Castellana* (R. Roger & F. Chernovis, Paris), one of the best Grammars written entirely in Spanish, and Pidal, *Gramática Histórica*.

PRONUNCIATION: Moreno-Lacalle, *Elements of Spanish Pronunciation* (Sanborn). Navarro-Tomás, *Pronunciación Española* (Centro de Estudios Históricos, Madrid) the best work of its kind, indispensable for students taking the Specialist Course.

HISTORY OF LITERATURE: Fitzmaurice-Kelly, *History of Spanish Literature*. There is also a Spanish edition of this work with an up-to-date bibliography Mérimée, *Histoire de la littérature espagnole* (Garnier Frères, Paris). Salcedo, *Literatura Española* (Casa Editorial Calleja, Madrid). Hurtado La Serna y González, *Historia de la literatura Española* (Madrid, 1921, also New York, Zabala and Maurin). Romera-Navarro, *Historia de la literatura Española* (Heath & Co, New York).

SPAIN AND ITS PEOPLE: Richard Ford, *The Handbook for Travelers in Spain*, London (John Murray, 8th edition, 1892. There is also an Everyman's edition of the same work entitled Ford's *Gatherings from Spain*.) George Borrow, *The Bible in Spain* (Dent), T. Gautier, *Voyage en Espagne*, E. de Amicis, *Spain and the Spaniards* (Putnam), are classics with which every student of Spanish must be acquainted. Havelock Ellis, *The Soul of Spain* (Houghton Mifflin Co.), S. L. Bensusan, *Home Life in Spain* (Macmillan), J. B. Trend, *A Picture of Modern Spain* (Houghton Mifflin Co., 1921), are good modern works on this subject.

COURSES OF INSTRUCTION

SPANISH A. ELEMENTARY SPANISH.

Grammar, Composition, Translation, Reading and oral exercises.
Prescribed texts:

Spanish Grammar and Reading (McKay).

Hugo's Spanish Verbs.

Schevill, *First Reader in Spanish* (Ginn).

Six Tales from Calderón (Holt & Co.), second term.

Castillo and Sparkman, *Primeras Lecturas Españolas* (Chicago).

Quinteros, *La flor de la vida* (Heath), second term.

Monday, Wednesday, and Friday at 11.

Tuesday, Thursday, and Saturday at 9.

Professor Brovedani and Mr. Lanigan.

SPANISH 1. INTERMEDIATE SPANISH.

Prerequisite—Spanish Matriculation, or Spanish A.

Grammar, Composition, Translation, Conversation and Study of the following prescribed texts:

Crawford, *Temas españoles* (Holt).

Hugo's Spanish Verbs.

Blasco Ibáñez, *Siete Cuentos* (Holt).

Lecturas Modernas Fáciles (Black).

Ugarte y Rubio, *De la noche a la mañana* (Norton).

Ford, *Spanish Composition* (Heath).

Baroja, *Inquietudes de Andía* (Heath).

McHale, *Un viaje a Sud América* (Heath).

Monday, Wednesday, and Friday at 9.

Mr. Lanigan.

SPANISH 2. ADVANCED SPANISH.

Prescribed texts:

Valera, *Juanita la Larga* (Century), second term.

Martínez de la Rosa, *La Conjuración de Venecia* (Sanborn)
second term.

Quintero, *Doña Clarines* (Heath), second term.

Martínez Sierra, *Canción de Cuna* (Heath).

Benavente, *Los Malhechores del Bien* (Macmillan).

Valdés, *José* (Heath).

Remy, *Spanish Composition* (Heath).

Extramural students in order to be credited with this course must satisfy the oral requirements.

Tuesday, Thursday, and Saturday at 10.

Professor Brovedani.

SPANISH 6. COMMERCIAL SPANISH; READING OF MODERN SPANISH PROSE. Prerequisite, Spanish 1.

Prescribed texts:

Blasco Ibáñez, *La batalla del Marne* (Heath).

Albes, *Viajando por Sud América* (Holt).

Olmsted and Gordon, *Spanish Grammar* (Holt).

Azorín, *Las confesiones de un pequeño filósofo* (Heath).

Pérez Lugín, *La Casa de la Troya* (Heath).

Whittem and Andrade, *Spanish Commercial Correspondence* (Heath).

Valdés, *La novela de un novelista* (Heath).

McHale, *Commercial Spanish* (Heath), for outside reading.

Tuesday, Thursday, and Saturday at 10.

Mr. Lanigan.

SPANISH 10. MODERN AUTHORS.

Alarcón, *El Sombrero de tres picos* (Holt).

Quintero, *Puebla de las mujeres* (Century).

Así se escribe la historia (Crofts)

Ibanéz, *La Barraca* (Holt).

Valdés, *La Hermana San Sulpicio* (Ginn).

Sierra, *Sol de la tarde* (Heath).

Espronceda, *Estudiante de Salamanca* (Ginn).

Montero, *Antología* (Renacimiento).

Barja, *Libros Modernos* (Campbell).

Tuesday, Thursday, and Saturday at 9.

Professor Brovedani.

SPANISH 22. DRAMA OF THE GOLDEN AGE.

Lope, Tirso, Alarcón, Calderón.

Alternate years only.

Offered in 1936-37.

Monday, Wednesday, and Friday at 10.

Professor Brovedani.

SPANISH 24. CERVANTES Y LA NOVELA DE COSTUMBRES.

(a) Cervantes:

Schevill, *Cervantes* (Ginn).

Cervantes, *Don Quijote* (Clásicos Castellanos).

(b) Novela de Costumbres.

Not offered in 1936-37.

Monday, Wednesday, and Friday at 10.

Professor Brovedani.

SPANISH 30. RENAISSANCE AND THE ROMANTIC PERIOD. THE PICAR-
ESQUE NOVEL.

Not offered in 1936-37; alternate years only.

Reserved for Honours students.

Monday, Wednesday, and Friday at 2.

Professor Brovedani.

READING COURSES IN SPANISH.

R 1.

Armando Palacio Valdés, *Marta y María; La alegría del capitán Ribot.*Juan Valera, *Pepita Jiménez.*Ramón del Valle-Inclán, *Sonata de otoño.*Ramón de Campoamor, *Poesías.*Gustavo Adolfo Bécquer, *Desde mi celda: Rimas.*Rubén Darío, *Selections from his Prose and Poetry.*Jacinto Benavente, *Los intereses creados; La Malquerida.*Álvarez Quinteros, *El amor que pasa.*Salcedo, *Historia de la literatura española*, chs. 1-6, Vol. II.

R 2.

Fernán Caballero, *La Gaviota or La familia de Alvareda.*Emilia Pardo Bazán, *Los pazos de Ulloa or La madre naturaleza.*Juan Valera, *Doña Luz or El comendador Mendoza.*Benito Pérez Galdós, *Fortunata y Jacinta.*Antonio de Trueba, *Cuentos.*Luis Coloma, *Pequeñeces.*Vicente Blasco Ibáñez, *La catedral.*Pío Baroja, *Camino de perfección.*Miguel de Unamuno, *Vida de don Quijote y Sancho or Del sentimiento trágico de la vida.*Gaspar Núñez de Arce, *Un idilio. El haz de leña.*Manuel Tamayo y Baus, *Lo positivo or Un drama Nuevo.*Adelardo López de Ayala, *El tanto por ciento or Consuelo.*César Barja, *Autores Modernos.*

R 3.

Santa Teresa de Jesús, *Libro de su vida*.

Luis de León, *La perfecta casada*. *Poesías*.

Guillén de Castro, *Las Mocedades del Cid*.

Augustín Moreto y Cabaña, *El desdén con el desdén* or
El valiente Justiciero.

Luis Vélez de Guevara, *Más pesa el ray que la sangre*; *Diablo cojuelo*.

Francisco de Rojas Zorrilla, *Del rey abajo, Ninguno*.

Francisco Gómez de Quevedo, *Los sueños*.

Quevedo, Meléndez Valdés, Quintana, Herrera, Góngora, and
Gallego in the Oxford Book of Spanish Verse.

Selections from Samaniego, Iriarte, Jovellanos.

José Cadalso, *Cartas marruecas*. *Noches Lúgubres*.

Ramón de la Cruz, *Las tertulias de Madrid*, *El Prado por la
noche*, *La Pradera de San Isidro*, *La Plaza Mayor por
Navidad*.

Leandro Fernández de Moratín, *El sí de las niñas* or *La comedia
nueva*.

José Zorrilla, *Don Juan Tenorio*.

Padre Isla, *Gil Blas* or *Fray Gerundio*.

José María de Pereda, *Sotileza*, *Peñas arriba*.

Romera-Navarro, *Historia de la literatura española*.

GRADUATE COURSES

Lecture courses and Directed Special Studies will be offered as
needed.

ITALIAN

COURSES OF INSTRUCTION

ITALIAN 1. ELEMENTARY ITALIAN.

Alternate years only. Offered in 1936-37.

Monday, Wednesday, and Friday at 9.

Reserved for Honours Spanish students.

ENGLISH LANGUAGE AND LITERATURE

PROFESSOR—George Herbert Clarke, M.A., D.Litt., F.R.S.C.,
F.R.S.L.

PROFESSOR—James Alexander Roy, M.A.

ASSOCIATE PROFESSOR—Henry Alexander, M.A.

ASSOCIATE PROFESSOR—Wilhelmina Gordon, M.A.

LECTURER—Eric E. Duthie, M.A.

REGULATIONS

1. English 1 and 2 are required of all candidates for a degree in Arts. English 1 is prerequisite to English 2. English 2 is prerequisite to all courses numbered higher except English 10, which should be taken during the same year as English 2.

2. Students offering English as one of the main subjects on a Pass Course will take English 1, 2, and 3. Those who desire to take a fourth course should consult the Department before registering.

3. For Honours in English a student must take:

(a) Twelve courses for the Major, as follows:

Eight courses in English: 1, 2, 10, 14a, 14b, 18, 16b, 17a or 19a, 20, 22, with one supporting course, Latin 2.

Three Reading courses in English: R 1, R 2 (or R 3), R 4.

(b) Five courses for the Minor, in History, French, Latin, Greek, German, Philosophy, or Spanish. (Note: When the Minor is Latin, the supporting course for the Major will be French 2.)

(c) Six compulsory general courses to complete the work for a degree:

With History as Minor: Latin 1, French 1 or Greek 1 or German 1, Philosophy 1, one science, two free options. (French 2 is recommended).

With French as Minor: Latin 1, Philosophy 1, one science, three free options. (History 2 and German 1 are recommended).

With Latin as Minor: French 1 or Greek 1 or German 1, Philosophy 1, one science, three free options. (French 2 and History 2 are recommended.)

With Greek as Minor: Latin 1, Philosophy 1, one science, three free options. (History 2 and French 1 or German 1 are recommended).

With German as Minor: Latin 1, Philosophy 1, one science, three free options. (History 2 and French 1 are recommended).

With Philosophy as Minor: Latin 1, French 1 or German 1 or Greek 1, one science, three free options. (History 2 and French 2 are recommended).

- (d) A Minor in English will consist normally of English 1, 2, 10, 18, and 20.

4. For Specialist standing in English with History as Minor students must take the following five courses in History: History 1, 3, 16 and two of 17, 18a and 19b, 24, 28a and 29b. In the general courses they must include French 1, 2 or German 1, 2. The free option should be taken in one of the languages.

5. Except by special permission, students making English their major subject in Honours must take the courses in the following order: 2, 10; 14a, 14b, 18 and R 1; 16b, 17a (or 19a), R 2 (or R 3); 20, 22, R 4.

6. For information in regard to Scholarships in English see p. 56.

COURSES OF INSTRUCTION (Pass)

Note: Students in each of the following courses will be furnished with a list of recommended reference books in addition to those required.

ENGLISH 1. PROSE COMPOSITION, WITH LITERARY BACKGROUND.

A practical course in Prose Composition, with parallel reading. In the examination both knowledge of the texts and ability to write clearly and correctly will be required.

Prescribed texts:

Richard Wilson, *Thinking About English*. (London and Toronto: Thomas Nelson and Sons).

Richard Wilson, *Pattern Prose*. (London and Toronto: Thomas Nelson and Sons).

Shakespeare, *Henry IV, Part I*, edited by W. A. Wright. (Toronto: Oxford University Press).

Selected English Essays, King's Treasuries Series. (London and Toronto: J. M. Dent and Sons).

Selected Short Stories, World's Classics, No. 193. (Toronto: Oxford University Press).

Modern Short Stories, edited by Guy N. Pocock, King's Treasuries Series. (Toronto: J. M. Dent and Sons).

Ten Modern Stories, edited by John Hampden. (Toronto: Thomas Nelson and Sons).

In addition to the foregoing each student must possess a satisfactory English dictionary, preferably the *Concise Oxford Dictionary* (Toronto: Oxford University Press).

Monday, Wednesday, Friday at 10.

Tuesday, Thursday, Saturday, at 8.

ENGLISH 2. A GENERAL INTRODUCTION TO ENGLISH LITERATURE.

This course is intended to provide a general knowledge of the history and development of English Literature, and to lay a foundation for the advanced specialized courses. It deals both with periods and with types, and seeks to encourage in the student some critical appreciation of literary values.

Prescribed texts:

Emile Legouis, *A Short History of English Literature...* (Toronto: Oxford University Press).

Anthology of English Prose, edited by S. L. Edwards, Everyman's Library (Toronto: J. M. Dent and Sons).

The World's Classics, No. 222 and Nos. 308-312, inclusive. (Toronto: Oxford University Press).

A Literary and Historical Atlas of Europe, Everyman's Library. (Toronto: J. M. Dent and Sons).

Sections A and B. Monday, Wednesday, Friday, at 9.

Section C. Tuesday, Thursday, Saturday, at 11.

*ENGLISH 3. ADVANCED PASS ENGLISH.

A study of English drama and prose fiction.

Prescribed texts:

Plays before Shakespeare, edited by Evelyn Smith. (London and Toronto: J. M. Dent and Sons—King's Treasuries Series).

Earlier English Drama, edited by F. J. Ticknor (London and Toronto: Thomas Nelson and Sons—The Teaching of English Series).

Three Elizabethan Plays, edited by J. D. Andrews and A. R. W. Smith. (London and Toronto: Thomas Nelson and Sons—The Teaching of English Series).

Shakespeare's Plays (any complete edition).

Restoration Tragedies, and *Eighteenth Century Comedy*, Nos. 313 and 292 of The World's Classics Series. (Toronto: Oxford University Press).

The following novels, in Dent's Everyman edition, or in the World's Classics Series: Bunyan, *The Pilgrim's Progress*; Defoe, *Robinson Crusoe*; Goldsmith, *The Vicar of Wakefield*; Jane Austen, *Sense and Sensibility*; Scott, *The Antiquary*; Dickens, *David Copperfield*; Thackeray, *Henry Esmond*; Trollope, *Barchester Towers*.

Monday, Wednesday, and Friday at 11.

*ENGLISH 4. ADVANCED PASS ENGLISH.

A study of English prose and poetry.

Prescribed texts:

The Golden Book of Modern English Poetry, edited by Thomas Caldwell. (Toronto: J. M. Dent and Sons). Hardy, *The Mayor of Casterbridge*; Bennett, *The Old Wives' Tale*; Wells, *Tono-Bungay*; Conrad, *Victory*.

All these novels are published in the Modern Library Series. (Toronto: The Macmillan Company of Canada.)

*Courses 3 and 4 are offered in alternate years. For 1936-1937 Course 3 is offered.

COURSES OF INSTRUCTION (Honours)

ENGLISH 10. AN INTRODUCTION TO HONOURS IN ENGLISH.

To be taken during the same year as English 2. A general study of the history of the English language, of verse-forms, and of the fundamental principles of literary criticism.

Prescribed texts as in English 2, together with the following:

A. C. Baugh, *A History of the English Language* (New York: D. Appleton—Century Company).

L. S. Harris, *The Nature of English Poetry* (Toronto: J. M. Dent and Sons).

C. E. Vaughan, *English Literary Criticism* (London and Toronto: Blackie and Son).

Tuesday, Thursday, Saturday at 10.

Professor Alexander (first term) and Professor Clarke (second term).

ENGLISH 14a. OLD ENGLISH.

Prescribed text:

Krapp and Kennedy, *An Anglo-Saxon Reader* (New York: Henry Holt and Company).

Monday, Wednesday, Friday at 9.

Professor Alexander.

ENGLISH 14b. MIDDLE ENGLISH.

A study of the transition writers and of Chaucer's development, based on the following works: *The Romaunt of the Rose*, *Book of the Duchesse*, *Parlement of Foules*, *Troilus and Criseyde*, *House of Fame*, *Prologue to the Legend of Good Women*, *The Canterbury Tales*.

Prescribed texts:

Chaucer's Complete Works, edited by F. N. Robinson (Boston: Houghton Mifflin Company).

The Nun's Priest's Tale, edited by K. Sisam (Toronto: Oxford University Press).

Grace Hadow, *Chaucer and His Times*, Home University Library. (New York: Henry Holt and Company).

R. Morris, *Specimens of Early English*, Vol. I (Toronto: Oxford University Press).

Monday, Wednesday, Friday at 9.

Professor Alexander.

ENGLISH 18. SHAKESPEARE.

A review of the environment and life of Shakespeare, and of his development as a dramatist, with lectures on the lives and works of his chief forerunners and contemporaries. In the study of Shakespeare's works his leading comedies will be first considered, and thereafter his tragedies and last plays.

Prescribed texts:

J. W. MacKail, *The Approach to Shakespeare* (Toronto: Oxford University Press).

J. Q. Adams, *The Life of William Shakespeare*, Student's edition. (Boston: Houghton Mifflin Company).

The Complete Works of Shakespeare Gathered into One Volume (Oxford: Basil Blackwell, for the Shakespeare Head Press; Toronto: Oxford University Press).

A. C. Bradley, *Shakespearean Tragedy* (London and Toronto: The Macmillan Company).

Monday, Wednesday, Friday, at 10.

Professor Clarke.

ENGLISH 16b. SPENSER AND MILTON.

This course is concerned chiefly with the poetry of Spenser and Milton, but it includes a study of poets between Chaucer and Spenser, and also of the Elizabethan and Seventeenth Century lyric and some prose criticism.

Prescribed texts:

Edmund Spenser, *Poems*. (Any edition, preferably that published by the Oxford University Press).

Philip Sidney, *Apologie for Poetrie* (Toronto: Oxford University Press).

John Milton, *Poems*. (Any edition, preferably that published by the Oxford University Press).

John Milton, *Areopagitica*. (Toronto: Oxford University Press). Any anthology of English verse including Elizabethan lyrics.

Metaphysical Lyrics and Poems of the Seventeenth Century, edited by H. J. C. Grierson. (Toronto: Oxford University Press).

Recommended reading: Emile Legouis, *Spenser* (Toronto: J. M. Dent and Sons); J. H. Handford, *A Milton Handbook* (New York: F. S. Crofts and Company); Laura E. Lockwood (Ed.), *Selected Essays of John Milton* (Boston: Houghton Mifflin Company).

For extramural students:

A Spenser Handbook, by H. S. V. Jones (New York: F. S. Crofts and Company) is also recommended.

Tuesday, Thursday, Saturday, at 11.

Professor Gordon.

***ENGLISH 17a. THE CLASSICAL AGE. (Non-Dramatic Literature).**

English non-dramatic literature from 1660 to 1798. This course deals primarily with the critical theories of Dryden, Pope, Johnson and other neo-classicists, and considers also the work of the Pre-Romantics.

Prescribed texts:

English Critical Essays of the Seventeenth and Eighteenth Centuries (Toronto: Oxford University Press).

Odell Shepard and Paul Spencer Wood (Editors), *English Prose and Poetry, 1660-1800*. (Boston: Houghton Mifflin Company).

Dryden, *Poems*; and Pope, *Poems* (Globe editions). (London and Toronto: The Macmillan Company).

Matthew Arnold (Editor), *Johnson's Lives of the Poets* (London and Toronto: The Macmillan Company).

Tuesday, Thursday, Saturday, at 11.

Professor Roy.

***ENGLISH 19a. RESTORATION AND EIGHTEENTH CENTURY DRAMA.**

Prescribed texts:

G. H. Nettleton, *English Drama of the Restoration and Eighteenth Century*. (London and Toronto: The Macmillan Company).

Dougald MacMillan and Howard Mumford Jones (Editors), *Plays of the Restoration and Eighteenth Century*. (New York: Henry Holt and Company).

Tuesday, Thursday, Saturday at 11.

Professor Roy.

*Courses 17a and 19a are offered in alternate years. For 1936-1937 Course 17a is offered.

ENGLISH 20. ENGLISH LITERATURE FROM 1798 TO 1832.

Students are expected to show some knowledge of the poetry of Blake, Burns, Crabbe, Coleridge, Wordsworth, Scott and Southey, and of Byron, Shelley and Keats. Lamb, *Essays of Elia*; Hazlitt, *The Spirit of the Age* and *Table Talk*; Wordsworth, *Preface to Lyrical Ballads*; Coleridge, *Biographia Literaria*, Chaps. 14-22; Dorothy Wordsworth, *Journals*; Hunt's *Autobiography*, Moore's *Diary*; Letters of Wordsworth, Byron, Shelley, Keats.

Prescribed texts:

English Critical Essays of the Nineteenth Century. (Toronto: Oxford University Press).

Ernest Bernbaum, *Guide Through the Romantic Movement*, Vol. I, (Toronto: Thomas Nelson and Sons).

W. C. Hazlitt, *The Spirit of the Age*, Everyman edition. (Toronto: J. M. Dent and Sons).

William Wordsworth, *Poems*. (Oxford edition).

The Complete Poems of Keats and Shelley (Modern Library). (Toronto: The Macmillan Company).

Any editions of the Poetical Works of Coleridge, Scott, and Byron.

Tuesday, Thursday, Saturday, at 9.

Professor Roy.

ENGLISH 22. THE VICTORIAN AND GEORGIAN PERIODS.

English Literature from 1837 to the Present.

Prescribed texts:

J. W. Cunliffe and M. B. Pickel, *Century Readings in Victorian Prose*. (New York: D. Appleton—Century Company).

George B. Woods, *Poetry of the Victorian Period*. (Chicago: Scott, Foresman Company).

Any editions of the Poetical Works of Tennyson, Clough, Arnold, Browning, Rossetti and Swinburne.

Monday, Wednesday, Friday, at 11.

Professor Clarke.

READING COURSES IN ENGLISH:

R 1. The Novel.

This list no doubt includes some novels which the student has read. Another book by the same author may be substituted for any novel by Fielding, Richardson, Jane Austen, Dickens, or Charlotte Brontë. If a number of these books are read during the vacation, others, not so easily obtained, may be read during the session.

Bunyan, *The Pilgrim's Progress*; Addison, *The Sir Roger de Coverley Papers*; Defoe, *Robinson Crusoe*; Swift, *Gulliver's Travels*; Fielding, *Tom Jones*; Richardson, *Clarissa Harlowe* (abridged); Goldsmith, *The Vicar of Wakefield*; Horace Walpole, *The Castle of Otranto*; Sir Walter Scott, *The Antiquary* or *The Heart of Midlothian*; Jane Austen, *Emma* or *Pride and Prejudice*; Dickens, *David Copperfield* or *The Old Curiosity Shop*; Thackeray, *Vanity Fair* or *The Newcomes*; Charlotte Brontë, *Shirley*; Meredith, *Diana of the Crossways* or *The Egoist*; Trollope, *Barchester Towers*; Stevenson, *Kidnapped*, and two of his short stories; Kipling, *Kim*, and three of his short stories; Barrie, *A Window in Thrums*; Bennett, *The Old Wives' Tale*; Galsworthy, *The Forsyte Saga*; any one novel by Sheila Kaye-Smith or Virginia Woolf. Most of these books, except those by contemporary authors, are published in cheap editions by The Oxford Press, J. M. Dent and Sons, Thomas Nelson and Sons, or The Macmillan Company. The student is expected also to consult Anthony Trollope's *Autobiography* (*World's Classics*), *The English Novel* by W. A. Raleigh (London: John Murray), and *The Modern English Novel*, by A. Chevalley, translated by B. R. Redman (New York: Alfred A. Knopf).

Professor Gordon.

R 2 and R 3 are alternating courses. During the session 1936-1937 students will take R 3 and will proceed the following year to R 4.

R 2. Modern English Criticism.

Students will be expected to familiarize themselves with the history and genius of modern English criticism as represented in the following works: Wordsworth, *Prefaces*, (the 1800 *Preface* to be compared with Dante's *De Vulgari Eloquentia*); Coleridge, *Lectures on Shakespeare*, *Biographia Literaria*, Chaps. 14-22; Lamb, *Specimens of English Dramatic Poets*; Peacock, *The Four Ages of Poetry*; Shelley, *A Defence of Poetry*; Byron, *Letter to Murray*; selected passages from the great Reviews; Hazlitt, *The English Poets*, *The Spirit of the Age*; Carlyle, *Essay on Scott*, *Essay on Burns*; Campbell, *Lectures on Poetry*; Matthew Arnold, *Essays in Criticism*, *Culture and Anarchy*, *On Translating Homer* (in part); Landor, *Imaginary Conversations*; Pater, *Appreciations*. The student should have some general knowledge of the critical theories of Wilson ("Christopher North"), De Quincey, Lockhart, Hartley Coleridge, Maginn, Thackeray, Macaulay, Froude, Newman, Ruskin and J. A. Symonds.

Prescribed Texts:—

English Critical Essays of the Nineteenth Century. (Toronto: Oxford University Press).

English Critical Essays of the Twentieth Century. (Toronto: Oxford University Press).

Reilly, *Masters of Nineteenth Century Prose.* (Boston: Ginn and Company).

Everyman's Library (Toronto: J. M. Dent and Sons) includes many of the other works indicated.

Reference Works: (these books are suggested for consultation only): T. S. Omond, *The Romantic Triumph*; G. Saintsbury, *The History of Criticism, The Later Nineteenth Century*; H. Walker, *The Literature of the Victorian Era*; Louis Cazamian, *Criticism in the Making*; F. R. Leavis (Ed.), *Determinations*; Herbert Read, *Reason and Romanticism*; *The Cambridge History of English Literature.*

Professor Roy.

R 3. Modern Drama.

This reading course surveys the field of nineteenth and twentieth century drama in England, Europe and America. Introductory: Knowles, Jerrold, Bulwer-Lytton, Boucicault, Taylor. The Victorian Transition: Robertson, Gilbert, Jones, Pinero, Wilde, Shaw, Barrie, Galsworthy, Granville-Barker, Hankin. The Irish Drama: Yeats, Lady Gregory, Synge, Colum, Dunsany; Houghton and other Realists: Elizabeth Baker, Githa Sowerby. Poetic Dramatists: Masefield, Drinkwater. Post-war drama: Milne, Coward, O'Casey. Tendencies in Contemporary Drama.

Prescribed Texts:—

M. J. Moses, *Representative British Dramas, Victorian and Modern.* (New York: Dutton).

S. M. Tucker, *Modern American and British Plays.* (New York: Harper).

T. H. Dickinson and J. R. Crawford, *Contemporary Plays* (New York: Houghton Mifflin Company).

A. E. Morgan, *Tendencies of Modern English Drama.* (New York: Scribners).

Millett and Bentley, *The Art of the Drama.* (New York: Appleton-Century).

Reference Works (these books are suggested for consultation only):

A. Nicoll, *An Introduction to Dramatic Theory, British Drama*; Gordon Craig, *The Art of the Theatre*; H. Granville-Barker, *The Study of Drama, On Dramatic Method*; S. Cheney, *The Theatre*; D. C. Stuart, *The Development of Dramatic Art*; St. John Ervine, *The Theatre in My Time*; T. H. Dickinson, *An*

Outline of Contemporary Drama; The Cambridge History of English Literature.

Professor Roy.

R 4. American and Canadian Literatures.

Part One

Prescribed Texts: W. P. Trent and Others, *A Short History of American Literature* (New York: G. P. Putnam's Sons); F. C. Prescott and G. D. Sanders, *An Introduction to American Prose; An Introduction to American Poetry* (New York: F. S. Crofts & Company).

Reference Works (these books are suggested for consultation only, particularly the first): W. P. Trent and Others, *The Cambridge History of American Literature* (New York: G. P. Putnam's Sons); M. C. Tyler, *A History of American Literature during the Colonial Period, The Literary History of the American Revolution* (New York: G. P. Putnam's Sons); Barrett Wendell, *A Literary History of America* (New York: Charles Scribner's Sons); John Macy, *The Spirit of American Literature* (New York: Boni & Liveright); W. C. Brownell, *American Prose Masters* (New York: Charles Scribner's Sons); E. C. Stedman, *Poets of America* (Boston: Houghton Mifflin); Carl Van Doren, *The American Novel* (New York: The Macmillan Company).

In addition to the prescribed texts, the student will be expected to familiarize himself with at least eight of the following works: Cooper, *The Last of the Mohicans*; Emerson, *English Traits*; Hawthorne, *The Scarlet Letter*; Holmes, *The Autocrat of the Breakfast Table*; Lowell, *Among My Books*; Melville, *Moby Dick*; Stockton, *Rudder Grange*; Mark Twain, *Huckleberry Finn* or *Personal Recollections of Joan of Arc*; James, *The Bostonians* or *Roderick Hudson*; Cable, *Old Creole Days*; Wharton, *The Age of Innocence* or *The Valley of Decision*; Norris, *The Octopus* or *The Pit*; Cather, *The Shadow of the Rock*; Hergesheimer, *Java Head*; Crane, *The Red Badge of Courage*; Howells, *A Modern Instance*; Page, *In Ole Virginia*; Sherman, *On Contemporary Literature*; Bradford, *American Portraits*.

Part Two

Prescribed Texts: R. P. Baker, *A History of English-Canadian Literature to the Confederation* (Boston: Harvard University Press); A. MacMechan, *Headwaters of Canadian Literature* (Toronto: McClelland & Stewart); E. K. and E. H. Broadus, *A Book of Canadian Prose and Verse*, Revised Edition, (Toronto:

The Macmillan Company); R. Knister, *Canadian Short Stories* (Toronto: The Macmillan Company); N. Hodgins, *Canadian Essays* (Toronto: Thomas Nelson & Sons); Bliss Carman and Lorne Pierce (Eds.), *Our Canadian Literature* (Toronto: The Ryerson Press).

Reference Works (these books are suggested for consultation only): Shortt and Doughty, *Canada and Its Provinces* (Vol. XII); W. S. Wallace, *Dictionary of Canadian Biography*; C. G. D. Roberts, *Who Was Who in Canada*; L. Pierce, *An Outline of Canadian Literature*; Horning and Burpee, *A Bibliography of Canadian Fiction*; James, *A Bibliography of Canadian Poetry*.

In addition to the prescribed texts, the student will be expected to familiarize himself with representative selections of Canadian prose and poetry, emphasizing especially selections from the chief works of John Richardson, William Kirby, T. C. Haliburton, Gilbert Parker, C. G. D. Roberts, D. C. Scott, A. Lampman, Bliss Carman, Louis Hémon, Marjorie Pickthall, W. H. Drummond, Francis Sherman, E. J. Pratt, Mazo de la Roche, Stephen Leacock.

Professor Clarke.

GRADUATE COURSES

Lecture courses and Directed Special Studies will be prescribed by the Department upon application. (See page 196.)

HISTORY

JAMES DOUGLAS PROFESSOR OF CANADIAN AND COLONIAL HISTORY—

Reginald G. Trotter, M.A., Ph.D., F.R.Hist.S.

PROFESSOR—A. E. Prince, M.A., B.Litt.

ASSISTANT PROFESSOR—W. E. C. Harrison, M.A.

SIR JAMES AIKINS FELLOW—H. S. Ferns, B.A.

WESTERN ONTARIO GRADUATES FELLOW—R. L. Way, B.A.

ARTS RESEARCH FELLOW IN HISTORY—F. J. Wilson, B.A.

TUTORS—J. G. Brown, M.A.

G. S. Watts, M.A.

REGULATIONS

1. In all courses in history a knowledge of historical geography is required. In addition to the atlases prescribed in individual courses the following are the most accessible and generally useful:

Ramsay Muir, *Philips' New Historical Atlas for Students*
(Clarke, Irwin and Co., Toronto).

W. R. Shepherd, *Historical Atlas* (Holt).

2. Students selecting one course only in this Department may choose either History 1 or 3.

3. Students selecting history as one of the special subjects for a pass degree will take History 1 (unless credited with Modern History as an Honour Matriculation subject), History 3, and any one of History 12, 13, 16, 17, 18a with 19b.

4. Students presenting Upper School History (credited in lieu of History 1) with a grade not less than B may in their first year take concurrently with History 3 either History 13 or History 16.

5. For information in regard to Scholarships in History see pages 57-58.

6. Honours in History may be taken in either British and European History or in British and Colonial History.

A. *British and European History.*

(a) Twelve courses for Major as follows:

History 1, 3, 12, 13, 16, 17, 18a, 19b, and one chosen from 15b with 25a, 24, 27, with one supporting course, Greek and Roman History 4 or Latin 2.

Three Reading courses chosen from R 1, R 2, R 3, R 4, R 5, R 6. Subject to the approval of the Department one Reading course may be selected from those offered in the Minor subject.

- (b) Five courses for Minor in English, Greek and Roman History, French, Philosophy, or Political and Economic Science.

(For a Specialist's certificate in History a student must take a Minor in Political and Economic Science made up of Economics 1, Politics 2, Economics 14, and two further courses. Geology 1 should be taken as the required science.)

- (c) Six compulsory general courses to complete the work for degree: With English as Minor: Latin 1, French 1 or German 1 or Greek 1, Philosophy 1, one science, two free options. (Greek and Roman History 52 or 53 is recommended.)

With Economics and Politics as Minor or with Greek and Roman History as Minor: English 1, 2; Latin 1 or Mathematics 1; Philosophy 1; French 1 or Greek 1 or German 1; one science.

With French as Minor: English 1, 2, Latin 1, Philosophy 1, one science, one free option.

With Philosophy as Minor: English 1, 2, Latin 1 or Mathematics 1, French 1 or German 1 or Greek 1, one science, one free option.

B. *British and Colonial History.*

- (a) Twelve courses for Major as follows:

History 1, 3, 13, 16, 17, 18a, 19b, 20a, 21b, 28a, 29b with one supporting course, Greek and Roman History 4 or Latin 2.

Three Reading courses in History chosen from R 1, R 2, R 3, R 4, R 5, R 6. Subject to the approval of the Department one Reading course may be selected from those offered in the Minor subject.

- (b) Five courses for Minor—as stated in A (b).

- (c) Six compulsory general courses—as stated in A (c).

HISTORY 1. THE EVOLUTION OF MODERN EUROPE.

An introductory study of the historical background of contemporary Europe with considerable emphasis on Great Britain.

Mrs. H. A. L. Fisher, *A History of England and Europe* (Ryerson).

J. F. Horrabin, *An Atlas of European History* (Gollancz).

F. S. Marvin, *England and the World* (Oxford University Press).

F. S. Marvin, *The Living Past* (Oxford University Press).

Other reading to be assigned.

Extramural students will be required to buy additional books.

Tuesday, Thursday, and Saturday at 11.

Professor Harrison and

HISTORY 3. CANADIAN HISTORY.

Canadian history in its setting as a phase of the expansion of European civilization into North America.

Carl Becker, *Beginnings of the American People* (Houghton Mifflin).

J. B. Brebner, *The Explorers of North America 1492-1806* (Macmillan).

Carl Wittke, *A History of Canada* (McClelland and Stewart).

L. J. Burpee, *An Historical Atlas of Canada* (Nelson).

Other reading to be assigned.

Extramural students will be required to buy additional books.

Tuesday, Thursday, and Saturday at 8. Professor Trotter.

HISTORY 12. MEDIAEVAL EUROPEAN HISTORY, 400-1453.

A study of the evolution of Western civilization during this period.

G. G. Coulton, *The Mediaeval Scene* (Macmillan).

D. C. Munro and R. J. Sontag, *The Middle Ages* (Century).

R. C. D. Laffan, *Select Documents of European History*, Vol. I (Holt).

Other reading to be assigned.

Monday, Wednesday, and Friday at 9. Professor Prince.

HISTORY 13. THE DEVELOPMENT OF BRITISH COLONIAL POLICY.

J. A. Williamson, *A Short History of British Expansion* (College edition. Macmillan).

A. B. Keith, *Selected Speeches and Documents on British Colonial Policy, 1763-1917, and Speeches and Documents on the British Dominions, 1918-1931* ("The World's Classics", Oxford University Press).

R. G. Trotter, *The British Empire-Commonwealth* (Macmillan).

Students are urged also to purchase for their own use:

C. Grant Robertson and J. G. Bartholomew, *Historical and Modern Atlas of the British Empire* (Saunders).

Other reading to be assigned.

Monday, Wednesday, and Friday at 10. Professor Trotter.

HISTORY 15b. THE NEAR EAST.

A study in the relations between occidental and oriental peoples of that region. The course stresses the rise and fall of the Ottoman Empire, the contacts of Christianity and Islam, international rivalries, recent Balkan troubles, the rebirth of Turkey, Arabia, Palestine, etc.

J. A. R. Marriott, *The Eastern Question* (Oxford University Press).

Other reading to be assigned.

Hours to be arranged. Professor Prince.

HISTORY 16. MEDIAEVAL BRITISH HISTORY.

This course traces British progress down to 1485, emphasizing the constitutional and cultural aspects of the history.

T. F. Tout, *Advanced History of Great Britain*, Pt. I.

(Longmans).

G. B. Adams, *Constitutional History of England* (Holt),

R. T. Davies, *Documents Illustrating the History of Civilization in Medieval England* (Saunders).

Other reading to be assigned.

Tuesday, Thursday, and Saturday at 9. Professor Prince.

HISTORY 17. ENGLAND SINCE 1714.

The course emphasizes the later phases in the evolution of England during this period.

R. B. Mowat, *England in the Eighteenth Century* (Clarke, Irwin & Co.).

Gilbert Slater, *The Growth of Modern England* (Macmillan).

Sir John Marriott, *Modern England, 1885-1932* (Saunders).

G. B. Adams, *Constitutional History of England* (Holt).

Other reading to be assigned.

Monday, Wednesday, and Friday at 9. Professor Harrison.

HISTORY 18a. ENGLAND UNDER THE TUDORS, 1485-1603.

C. H. Williams, *The Tudor Despotism* (Nelson).

A. Browning, *The Age of Elizabeth* (Nelson).

Katherine Garvin, *The Great Tudors* (Saunders).

G. B. Adams, *Constitutional History of England* (Holt).

Other reading to be assigned.

Tuesday, Thursday, and Saturday at 9. Professor Harrison.

HISTORY 19b. ENGLAND UNDER THE STUARTS, 1603-1714.

G. M. Trevelyan, *England under the Stuarts* (Saunders).

John Buchan, *Oliver Cromwell* (Musson).

G. B. Adams, *Constitutional History of England* (Holt).

Other reading to be assigned.

Tuesday, Thursday, and Saturday at 9. Professor Trotter.

HISTORY 20a. HISTORY OF NEW FRANCE.

R. G. Trotter, *Canadian History, A Syllabus and Guide to Reading* (new and enlarged edition, Macmillan).

Sir Charles Lucas, *Historical Geography of the British Dominions*, Vol. V, Part I, *History of Canada to 1763* (Oxford University Press).

J. B. Brebner, *New England's Outpost: Acadia before the Conquest of Canada* (Oxford University Press).

Other reading to be assigned.

Tuesday, Thursday, and Saturday at 10.

HISTORY 21b. BRITISH RULE IN CANADA, 1760-1818.

R. G. Trotter, *Canadian History, A Syllabus and Guide to Reading* (new and enlarged edition, Macmillan).

Burt, A. L., *The Old Province of Quebec* (Ryerson Press).

W. P. M. Kennedy, *Statutes, Treaties, and Documents of the Canadian Constitution* (second edition. Oxford University Press).

Other reading to be assigned.

Tuesday, Thursday, and Saturday at 10.

HISTORY 24. THE RENAISSANCE.

The emphasis in lectures and discussions will be on the cultural and religious developments of the period.

Henry S. Lucas, *The Renaissance and the Reformation*
(Harper).

Other reading to be assigned.

Hours to be arranged. Professor Prince.

HISTORY 25a. UNITED STATES HISTORY.

A survey course covering the national period.

Charles A. Beard and Mary R. Beard, *The Rise of American Civilization* (Macmillan).

A. B. Hart and H. E. Bolton, *American History Atlas* (Denoyer-Geppert, Chicago).

Other reading to be assigned.

Hours to be arranged.

HISTORY 27. NATIONAL AND INTERNATIONAL EUROPE IN THE NINETEENTH AND TWENTIETH CENTURIES.

The lectures in the first term will deal with the problems of nationality and democracy in nineteenth century Europe and in the second term the emphasis will be on international affairs in the twentieth century.

Texts:

H. A. L. Fisher, *A History of Europe*, vol. III (Eyre and Spottiswoode).

Bertrand Russell, *Freedom versus Organization* (Norton).

G. M. Gathorne-Hardy, *A Short History of International Affairs, 1920-1934* (Oxford University Press).

Students are urged also to purchase for their own use

C. Grant Robertson and J. G. Bartholomew, *An Historical Atlas of Modern Europe from 1789 to 1922* (Oxford University Press).

Monday, Wednesday, and Friday at 11. Professor Harrison.

HISTORY 28a. CANADIAN HISTORY, 1818-1854.

HISTORY 29b. CANADIAN HISTORY SINCE 1854.

History 28a and 29b are conducted as a seminar combining discussion of historical methods and bibliography, and problems of interpretation in Canadian history, with reports by students on selected topics.

R. G. Trotter, *Canadian History, A Syllabus and Guide to Reading* (new and enlarged edition, Macmillan).

Cambridge History of the British Empire, vol. VI (Macmillan).
Chester Martin, *Empire and Commonwealth* (Oxford University Press).

R. G. Trotter *Canadian Federation: Its Origins and Achievement* (Dent).

W. P. M. Kennedy, *Statutes, Treaties and Documents of the Canadian Constitution* (second edition, Oxford University Press).

Other material in the Queen's collection of Canadiana will be used in connection with the preparation of reports.

Hours to be arranged. Professor Trotter.

READING COURSES IN HISTORY:

R 1. Fourteenth Century England.

G. M. Trevelyan, *England in the Days of Wycliffe* (Longmans).

G. C. Coulton, *Chaucer and His England* (Saunders).

J. J. Jusserand, *English Wayfaring Life in the Middle Ages* (Nelson).

D. Chadwick, *Social Life in the Days of Piers Plowman* (Macmillan).

J. Froissart, *Chronicles* (Globe edition) (Macmillan).

D. Hughes, *Illustrations of Chaucer's England* (Longmans).

The last two works are to be "read in parts and not curiously". The others are to be "read wholly, and with diligence and attention".

R 2. The Political Ideas of Edmund Burke.

Burke, *Thoughts on the Causes of the Present Discontents* (Macmillan); *American Speeches and Letters* (Dent: Everyman's Library); *Reflections on the French Revolution* (Dent: Everyman's Library).

John Morley, *Burke* (Macmillan).

R. H. Murray, *Edmund Burke* (Oxford University Press).

B. Newman, *Edmund Burke* (Clarke, Irwin and Co.).

A. Cobban, *Edmund Burke and the Revolt against the Eighteenth Century* (Macmillan).

R 3. British Foreign Policy (Pre-War).

A. F. Pribram, *England and the International Policy of the European Great Powers, 1871-1914* (Oxford University Press).

H. Nicolson, *Sir Arthur Nicolson* (Macmillan).

Sir Edward Grey, *Twenty-five Years* (Hodder and Stoughton).
Oxford and Asquith, H. H. A., Earl of, *Genesis of the War* (Cassell).

G. B. Manhart, *Alliance and Entente, 1871-1914* (Crofts).

W. S. Churchill, *The World Crisis, 1911-1914* (Scribner).

Students are referred for any further information they may require on specific points or situations to the following: Sir A. W. Ward and G. P. Gooch, *The Cambridge History of British Foreign Policy*, Volume III.

R 4. Anglo-American Relations.

W. A. Dunning, *The British Empire and the United States* (Scribners).

R. B. Mowat, *The Diplomatic Relations of Great Britain and the United States* (Longmans).

H. L. Keenleyside, *Canada and the United States* (Crofts).

Sir Robert Falconer, *The United States as a Neighbour* (Cambridge University Press).

G. M. Wrong, *The United States and Canada: A Political Study*. (Abingdon Press).

E. D. Adams, *Great Britain and the American Civil War* (Longmans).

C. R. Fish, Sir Norman Angell, and C. L. Hussey, *The United States and Great Britain* (University of Chicago Press).

Dunning, Mowat, and Keenleyside should be studied with special care, but the examiner will also assume that the student has read thoughtfully the other works here listed.

R 5. Canadian History.

C. W. New, *Lord Durham* (Oxford Press), (The Canadian chapters).

Adam Shortt, *Lord Sydenham* (Makers of Canada).

G. P. de T. Glazebrook, *Sir Charles Bagot in Canada* (Oxford University Press).

G. E. Wilson, *Robert Baldwin* (Ryerson Press).

J. L. Morison, *The Eighth Earl of Elgin* (Hodder and Stoughton).

O. D. Skelton, *The Life and Times of Sir Alexander T. Galt* (Oxford University Press).

Sir Joseph Pope, *Memoirs of Sir John Macdonald* (Oxford University Press).

O. D. Skelton, *The Life and Letters of Sir Wilfrid Laurier* (Gundy).

R 6. History and Historiography.

G. P. Gooch, *History and Historians in the Nineteenth Century* (Longmans), (material on the following historians: Ranke, Treitschke, Michelet, Guizot, Tocqueville, Taine, Aulard,

Hallam, Lingard, Macaulay, Carlyle, Froude, Stubbs, Freeman, Green, Gardiner, Lecky, Seeley, Acton, Bancroft (George), Prescott, Parkman, Mahan, Burckhardt.)

Chas. G. Crump, *History and Historical Research* (Routledge).

E. R. A. Seligman, *The Economic Interpretation of History* (Columbia University Press).

Shailer Mathews, *The Spiritual Interpretation of History* (Harvard University Press).

J. H. Robinson, *The New History* (Macmillan) (Chapters I-IV inclusive).

Lucy M. Salmon, *Historical Material* (Oxford University Press).

Encyclopaedia of the Social Sources, Vol. VII, pp. 357-389: "History and Historiography".

Students electing R 6 are advised to read it in their final year.

GRADUATE COURSES

Each student's programme of graduate study is drawn up in consultation with the Department and adapted to the student's special needs and interests. Directed Special Studies may be pursued and a thesis written in many aspects of Canadian History and in some phases of English and European History. Such courses in Canadian History as shall be offered at the Queen's Summer School of History at the Public Archives at Ottawa may with advantage be taken there instead of at the University in the winter.

POLITICAL AND ECONOMIC SCIENCE

PROFESSOR—W. A. Mackintosh, M.A., Ph.D., F.R.S.C.

PROFESSOR—N. McL. Rogers, M.A., B.Litt., B.C.L.
(on leave of absence).

ASSOCIATE PROFESSOR—C. E. Walker, B.Sc.(Acc.), C.A.

ASSOCIATE PROFESSOR—R. G. H. Smails, B.Sc.(Econ.), A.C.A.

ASSOCIATE PROFESSOR—C. A. Curtis, B.A., Ph.D.

ASSOCIATE PROFESSOR—F. A. Knox, B.A.

ASSISTANT PROFESSOR—J. L. McDougall, M.A.

LECTURER—A. B. Handler, M.A., M.Sc.(Econ.).

INSTRUCTOR—L. G. Macpherson, B.A., C.A.

INSTRUCTOR—A. W. Currie, B.A., B.Com., M.B.A.

REGULATIONS

1. Students selecting one course only in this Department may choose Economics 1, Politics 2, or Economics 4.

2. Students selecting this subject as one of their main subjects on the Pass Course must take Economics 1 and 4, and Politics 2. Those wishing to take additional classes must qualify by obtaining Grade B in the prerequisite class. Three courses in Commerce may be included under this regulation.

3. Students applying for admission to the Honours Course must have at least Grade B standing on Economics 1 (for Economics) or Politics 2 (for Politics).

4. Students proceeding to Honours in Economics or Politics should consult the syllabus for Honours, which will be furnished on application to the Department.

5. For information in regard to Scholarships in Political and Economic Science see pages 58-59.

6. For Honours in Economics or Politics a student must take:

(a) Twelve courses for Major in Economics as follows:

Economics 1, Politics 2, Economics 10b, 11a, 12, 15, 16t, 17, 20, 21, 22, 24.

Three Reading courses, Economics R 1, R 2, R 3.

or Twelve courses for Major in Politics as follows:

Economics 1, Politics 2, Economics 12, Politics 30, Politics 32, 33, 34, 35, with one additional course in History or Philosophy or Greek and Roman History.

Three Reading courses, Politics R 1, R 2, R 3.

(b) Five courses for Minor in Philosophy, History or Mathematics, approved by the Department.

(c) Six compulsory general courses to complete the work for degree:
With Philosophy as Minor: English 1, 2, French 1 or Greek 1 or German 1, Latin 1 or Mathematics 1, one science, one free option.

With History as Minor: English 1, 2; Philosophy 1, Latin 1 or Mathematics 1; French 1 or German 1 or Greek 1, one science, one free option.

With Mathematics as Minor: English 1, 2, French 1 or German 1 or Greek 1, Philosophy 1, one science, one free option.

7. Minor in Economics:

(a) (with Major in Mathematics) Economics 1, Politics 2, Economics 10b, 11a, 12, 14.

(b) (with Major in Philosophy or History) Economics 1, Politics 2, Economics 12, 14, 15 or 10b and 11a.

8. Minor in Politics:

Economics 1, Politics 2, and *three* of 30, 32, 34 and 35.

COURSES OF INSTRUCTION

ECONOMICS 1. INTRODUCTION TO ECONOMICS.

A general discussion of the principles governing the production, consumption, exchange and distribution of wealth, and the application of economic principles to such concrete problems as money, banking, taxation, trusts, the tariff, and the labor movement.

Text-book:—

Garver and Hansen, *Principles of Economics* (Ginn).

Monday, Wednesday, and Friday at 2.

Professors Mackintosh and Curtis.

POLITICS 2. INTRODUCTION TO POLITICS.

A description and analysis of:

(a) The form and working of the modern state—the Legislature, the Executive, and the Judiciary; Local and Federal Government; International Organization; The British Commonwealth of Nations.

(b) The theoretical basis of the modern state—the principles of political obligation; sovereignty; liberty; nationalism.

Laski, *Grammar of Modern Politics* (Allen and Unwin).

Assigned Readings.

Additional for extramural students:

Maciver, *The Modern State*.

Cole, *Guide to Modern Politics* (Gollancz).

Monday, Wednesday, and Friday at 10. Mr. Handler.

ECONOMICS 3. ECONOMICS FOR APPLIED SCIENCE STUDENTS.

Professor Walker.

ECONOMICS 4. DESCRIPTIVE ECONOMICS.

A comprehensive study of the development of modern industry, its organization and resources.

Text-books:—

Whitbeck and Finch, *Economic Geography* (McGraw-Hill).

Bartholomew and Lyde, *Oxford Economic Atlas* (Oxford).

Heaton, *Economic History of Europe* (Harpers).

Additional text-books for extramural students:

Mantoux, *Industrial Revolution in England* (Jonathan Cape).

Knowles, *Industrial and Commercial Revolutions in Great Britain* (Routledge).

Knowles, *Economic Development in Nineteenth Century* (Routledge).

Tuesday, Thursday, and Saturday at 9.

Professor Knox.

ECONOMICS 10b. INTRODUCTION TO ACCOUNTING.

A course in which accounting is introduced as a special type of the quantitative method of analysis. The aim of the course is to give the student an understanding of the principles of accounting and of the methods of summarizing accounting information in periodic balance sheets and income statements,—an understanding sufficient to permit the student to use accounting methods as a tool in economic analysis. The course is not intended to prepare the student for practical work in accountancy.

Text-book:—

Rorem, *Accounting Method* (University of Chicago Press).

Monday, Wednesday, and Friday at 2.

Mr. Macpherson.

ECONOMICS 11a (19b). INTRODUCTION TO STATISTICS.

A course in the collection, analysis, and charting of statistical data. Special attention will be given to graphic and diagrammatic presentation.

Text-book:—

Riggleman and Frisbee, *Business Statistics* (McGraw-Hill).

Monday, Wednesday, and Friday at 2.

Mr. Macpherson.

ECONOMICS 12. MONEY, BANKING AND INTERNATIONAL TRADE.

A survey of the financial organization of society; a study of money, commercial banking, central banking; a brief comparative study of the commercial banking systems of England, the United States, Canada, France, Germany; the theory of international trade, foreign exchanges, and tariff problems; a history of international financial relations since the war; the present situation.

Text-books:

Kemmerer, *Money* (Macmillan).

Rufener, *Money and Banking* (Houghton-Mifflin), 1936-37.

Taussig, *International Trade* (Macmillan).

Report of the Royal Commission on Banking and Currency in Canada, 1933 (Ottawa: King's Printer).

The Bank Act (Ottawa: King's Printer).

The Bank of Canada Act (Ottawa: King's Printer).

Notes on Banking.

Tuesday, Thursday, and Saturday at 8.

Professor Knox.

ECONOMICS 14. ECONOMIC HISTORY AND GEOGRAPHY.

An Honours course to be offered as part of a minor in Political and Economic Science. Students will attend the lectures in Economics 4.

Assigned Readings.

ECONOMICS 15. MODERN ECONOMIC THEORY.

A discussion course based on Cassell and Marshall. The general history of economic thought since Adam Smith will be included.

Text-books:—

Gide and Rist, *History of Economic Doctrines* (Heath).

Cassel, *Theory of Social Economy* (Harcourt, Brace).

Marshall, *Principles of Economics* (Macmillan).

Tuesday and Thursday at 2.

Professor Mackintosh.

ECONOMICS 16t. INTERNATIONAL ECONOMIC RELATIONS.

Theory of international trade and tariffs, history of international economic relations since the industrial revolution; current problems. (*Two hours*).

References:—

Taussig, *International Trade* (Macmillan).

Angell, *Theory of International Prices* (Harvard University Press).

Ohlin, *Interregional and International Trade* (Harvard University Press).

Tuesday at 3.

Professor Knox.

ECONOMICS 17. ECONOMIC PROBLEMS IN THE DEVELOPMENT OF CANADA AND THE UNITED STATES.

A lecture course (one hour each week) devoted to interpretation of the economic development of new communities.

Wednesday at 10.

Professor Mackintosh.

ECONOMICS 20. BUSINESS CYCLES AND MONETARY THEORY.

A seminar course dealing with the economic problems of a dynamic society with special attention to monetary factors. (*Four hours*).

Text-books:—

Keynes, *General Theory of Employment, Interest, and Money* (Macmillan).

Keynes, *A Treatise on Money* (Harcourt, Brace & Co.).

Mitchell, *Business Cycles* (National Bureau of Economic Research).

Robertson, *Banking Policy and the Price Level* (P. S. King & Son).

Hayek, *Prices and Production* (Routledge).

Hayek, *Monetary Theory and the Trade Cycle* (Cape).

Hours to be arranged.

Professor Mackintosh.

ECONOMICS 21. APPLIED ECONOMICS.

A study of the application of economic theory to the problems of monopoly and competition, the distribution of national wealth and income, public finance, transportation, population and labour.

Text-books:

Pigou, *Economics of Welfare* (Macmillan).

Pigou, *A Study in Public Finance* (Macmillan).

Chamberlain, *Theory of Monopolistic Competition* (Harvard University Press).

Hours to be arranged.

Professor Curtis.

ECONOMICS 22. SOCIALISM.

A lecture course (one hour each week).

Hours to be arranged.

Professor Knox.

ECONOMICS 23. ECONOMIC PROBLEMS.

This course is designed for students in Commerce but is open also to Pass students who have grade B standing in Economics 1. A more detailed and fundamental consideration will be given to the problems taken up in Economics 1. The course should be taken in the fourth year.

Prerequisites: Economics 1 and 4.

Assigned Readings.

Monday, Wednesday, and Friday at 10.

Professor Curtis.

ECONOMICS 24. CORPORATION FINANCE.

A lecture course (one hour each week) on the chief problems of corporation finance.

Hours to be arranged.

Professor Curtis.

ECONOMICS 26b. BUSINESS CYCLES

An introductory course in business fluctuations for Commerce and Pass students who have taken or are taking Economics 11a and 12.

Text-book:

Mitchell, *Business Cycles* (National Bureau of Economic Research).

Monday, Wednesday, and Friday at 9.

Professor Mackintosh.

ECONOMICS 27b. TARIFFS AND TARIFF PROBLEMS.

(Offered in 1937-38 but not in 1936-37).

A study of tariffs and trade regulation, tariff methods, the history of trade regulation and an economic analysis of tariff policies.

Assigned Readings.

Hours to be arranged. Professor Mackintosh.

ECONOMICS 28a. ECONOMICS OF TRANSPORTATION.

The chief interest in this course will be in the economics of railway transportation in Canada. After a short discussion of the growth of the Canadian railway system, the theory of monopoly pricing will be taken up at length. The discussion of rates will be treated as a particular problem under that head. The course will close with a consideration of the forces tending to break down the conditions of monopoly and of the implications of that change.

W. T. Jackman, *Economic Principles of Transportation* (University of Toronto Press).

Assigned Readings.

Monday, Wednesday, and Friday at 9.

Professor McDougall.

READING COURSES IN ECONOMICS:

R 1. European Economic History and Geography.

Bartholomew and Lyde, *Economic Atlas* (Oxford).

Whitbeck & Finch, *Economic Geography* (McGraw-Hill).

Heaton, *Economic History of Europe* (Harpers).

Mantoux, P., *The Industrial Revolution in England in the Eighteenth Century* (Jonathan Cape).

Usher, A. P., *The Industrial History of England* (Houghton-Mifflin).

Knowles, *Industrial and Commercial Revolution* (Routledge).

Knowles, *Economic Development in the Nineteenth Century* (Routledge).

R 2. Economic History of Canada and the United States.

Innis, M. Q., *Economic History of Canada* (Ryerson).

Canada and its Provinces:

Skelton, O. D., *General Economic History, 1867-1912*. Vol. X.

Knowles, L. C., *Economic Development of the Overseas Empire*, Vol. II (Routledge).

Innis, H. A., *History of the Fur Trade in Canada* (Ryerson).

Skelton, O. D., *The Railway Builders* (Chronicles of Canada).

Report of Royal Commission of Inquiry into Transportation,
1917. Sessional Papers, 1917.

Canadian Frontiers of Settlement:

Mackintosh, W. A., *Prairie Settlement*, Vol. I.

Mackintosh, W. A., *Problems of the Prairie Provinces*, Vol. IV.

Kirkland, *Economic History of the United States*.

Callendar, *Economic History of the United States* (Ginn)
(Introductions).

Turner, *Rise of the New West*.

Taussig, *Tariff History of the United States* (Putnams).

R 3. Problems of the Economic Order.

Skelton, O. D., *Socialism, A Critical Analysis* (Houghton-
Mifflin

Spargo, *Socialism*.

Spargo, *Karl Marx, His Life and Work*.

Withers, H., *The Case for Capitalism*.

Laidler, H. W., *History of Socialist Thought*.

Laidler (editor), *Socialism for Our Time*.

Hook S., *Towards the Understanding of Karl Marx* (John Day).

Tawney, *Equality*.

Lindsay, A. D., *Karl Marx's Capital*.

Laski, H. J., *Communism* (Home University Library).

Current accounts of communism in Russia, fascism in Italy,
Germany, etc.

POLITICS 30. CANADIAN GOVERNMENT AND CONSTITUTIONAL LAW.

(Offered in 1937-38 and in alternate years).

A critical and historical study of the governmental institutions of
Canada and of the British North America Act in particular.

Text-books:—

Dawson, *Constitutional Issues in Canada* (Oxford).

Assigned readings.

Selected Cases from Cameron, *The Canadian Constitution and
the Judicial Committee*.

Hours to be arranged.

POLITICS 32. POLITICAL THOUGHT SINCE THE RENAISSANCE.

(Offered in 1936-37 and in alternate years).

A study of the chief political thinkers and movements of the
modern world in their historical context.

Basic Reading:—

Dunning, *A History of Political Theories* (Macmillan).

Merriam and Barnes, *A History of Political Theories: Recent Times* (Macmillan).

Assigned Readings.

Monday, Wednesday, and Friday at 9.

Mr. Handler.

POLITICS 33. ENGLISH CONSTITUTIONAL HISTORY AND LAW.

A lecture course (one hour each week) devoted to a few of the more important phases of the subject.

Thursday at 2.

Mr. Handler.

POLITICS 34. INTERNATIONAL LAW AND ORGANIZATION (Offered in 1937-38 and in alternate years).

Text-books:—

Mower, *International Government* (Heath).

Pitt Cobbett, *Leading Cases on International Law* (Stevens and Haynes).

Assigned Readings.

Monday, Wednesday, and Friday at 9.

POLITICS 35. THE BRITISH COMMONWEALTH OF NATIONS.

(Offered in 1936-37 and in alternate years).

A study of the political problems of the countries making up the British Commonwealth of Nations.

Egerton, *Federations and Unions of the British Empire* (Oxford).

Elliott, *The New British Empire* (McGraw-Hill).

Palmer, *Consultation and Co-operation in the British Commonwealth* (Oxford University Press).

Assigned Readings.

Tuesday, Thursday, and Saturday at 11.

Mr. Handler.

READING COURSES IN POLITICS:

R 1. Comparative Government.

Brogan, D. W., *The American Political System*.

Middleton, W. L., *The French Political System*.

Marx, F. M., *Government in the Third Reich*.

Finer, H., *Mussolini's Italy*.

Webb, Sidney and Beatrice, *Soviet Communism*.

R 2. English Constitutional History and Law.

Maitland, *English Constitutional History* (Cambridge).

Dicey, *Law of the Constitution* (Macmillan).

Ivor Jennings, *Law and the Constitution* (University of London Press).

R 3. Contemporary Political Problems.

Morley, *The Society of Nations* (Brookings Institution).

The League From Year to Year (League of Nations) (Current edition).

Angell, *The Unseen Assassins* (Harpers).

Debate on the Address in Reply to the Speech from the Throne (current year), House of Commons Debates (Canada).

Debate on the Budget (latest available year), House of Commons Debates (Canada).

Report of The Imperial Conference (1932).

Report of the Royal Commission on Banking and Currency in Canada (1933).

Report of the Royal Commission on Newfoundland (1933).

Assignments in current public documents and political journals.

Commerce and Administration

COMMERCE 52. PRINCIPLES OF MARKETING.

A study of marketing functions, organization and policies from the standpoint of the economist and the business man. The study will be based upon specific problems derived as far as possible from Canadian experience.

Copeland, *Problems in Marketing* (McGraw-Hill).

Tuesday, Thursday, and Saturday at 11.

Mr. Currie.

COMMERCE 54. BUSINESS FINANCE.

A study of the problems of financial management through the life cycle of corporate enterprise, with special attention to those of the going concern.

Prerequisites—Economics 12 and Commerce 63.

Masson and Stratton, *Problems in Corporation Finance* (McGraw-Hill).

General Reading:

Dewing, *Financial Policy of Corporations* (Ronald Press).

Guthman, *Analysis of Financial Statements* (Prentice-Hall).

Lincoln, *Applied Business Finance* (McGraw-Hill).

Mead, *Corporation Finance* (Appleton).

Monday, Wednesday, and Friday at 11.

Professor McDougall.

COMMERCE 55b. INVESTMENTS.

A study of securities and of security markets from the standpoint of the investor.

Prerequisite: at least one term's work in Commerce 54.

Graham and Dodd, *Security Analysis* (McGraw-Hill).

General Reading.

Fraser and Doriot, *Analysing Our Industries* (McGraw-Hill).

Monday, Wednesday, and Friday at 10.

Professor McDougall.

COMMERCE 59. BUSINESS INVESTIGATION AND RESEARCH.

A study of the methods and problems of economic and business investigation and analysis. After some preliminary instruction in methods, the student will devote at least half the time of the course to the preparation of a thesis. Instruction with problems and reports on special aspects of business investigation will continue throughout the year.

Hours to be arranged.

Professor McDougall.

COMMERCE 60. COMMERCIAL LAW.

A study of the elements of Commercial Law, including the General Principles of the Law of Contract and the law relating to Sale of Goods, Negotiable Instruments, Agency, Insurance, Carriage of Goods Partnerships, Companies, and Bankruptcy as affecting Business Contracts.

General Reading:

Carter, *Elements of the Law of Contract* (Sweet and Maxwell).

Jenks, *Book of English Law* (John Murray).

Stevens, *Mercantile Law* (Butterworth).

Special topics:

Anson, *Law of Contracts* (Clarendon Press).

Caporn, *Cases on Contract* (Stevens and Sons).

Chalmers, *Sale of Goods* (Butterworth).

Falconbridge, *Law of Negotiable Instruments in Canada*
(Ryerson).

Pollock, *Digest of the Law of Partnership* (Stevens and Sons).

Fraser, *Handbook on Canadian Companies* (Carswell).

Dominion Companies Act.

Ontario Companies Act.

Monday, Wednesday, and Friday at 8.

Professors Smails and Walker.

COMMERCE 63. ELEMENTS OF ACCOUNTING.

An elementary study of the principles of accounting. It will involve exercises and problems, and practice in keeping an actual set of books, and will lead to the preparation of Trading and Profit and Loss Statements, from the Trial Balance of a private firm. It includes also a consideration of special features in accounts of limited companies, reserves, and reserve funds, consignments, single entry, branch accounts, departmental accounts, manufacturing accounts, etc.

Smails and Walker, *Accounting Principles and Practice*
(Ryerson).

Monday, Wednesday, and Friday at 11.

Professor Walker.

COMMERCE 64a. INTERMEDIATE ACCOUNTING.

A course in which the studies of Commerce 63 are carried to a more advanced stage. Particular attention is paid to problems peculiar to incorporated companies, e.g., treatment of shares without par value, amalgamations, holding companies and reconstructions.

Reading:

Smails and Walker, *Accounting Principles and Practice*
(Ryerson).

Ferguson and Crocombe, *Limited Companies and Their Accounts*
(Pitman).

Cropper, *Accounting* (Macdonald and Evans).

Tuesday, Thursday, and Saturday at 10.

Professor Smails.

COMMERCE 65b. INTERMEDIATE ACCOUNTING.

This course is virtually a continuation of 64a. Special topics discussed include executorship and trustee accounting, and accounts in bankruptcy.

Reading: As for Commerce 64a, and in addition:

The Succession Duty Act (R.S.O. 1927, Cap. 26).

Kingsford, *Executors and Administrators in Ontario*
(Carswell).

Hawkins, *Bookkeeping for Executors and Trustees*
(Gee & Co. (Publishers), Ltd.).

Tuesday, Thursday, and Saturday at 10.

Professor Smails.

COMMERCE 66a. COST ACCOUNTING.

This course presents the principles and methods of cost accounting.

Dohr, Ingram, and Love, *Cost Accounting* (Ronald).

Sanders, *Problems in Industrial Accounting* (McGraw-Hill).

Greer and Wilcox, *Problems in Cost Accounting* (McGraw-Hill).

Tuesday, Thursday, and Saturday at 9.

Professor Smails.

COMMERCE 67b. AUDITING AND INTERNAL CHECK.

A study of systems of internal check, the functions of internal and external auditors, audit procedure generally, the audit of the accounts of limited liability companies and of accounts relating to selected types of business undertakings.

Reading: Smails, *Auditing* (Pitman).

Jackson, *Audit Working Papers* (American Institute of Accountants Foundation).

The Income (War) Tax Act 1917, and amendments.

Tuesday, Thursday, and Saturday at 9.

Professor Smails.

N.B.—See also Calendar of Courses in Commerce and Administration.

GRADUATE COURSES

Lecture courses will be offered as needed.

Directed Special Studies in Economic History under Professor Mackintosh, in Monopolies, Government Regulation of Business and Public Finance under Professor Curtis, in International Trade and Finance under Professor Knox, in Political Science under Mr. Handler.

MENTAL AND MORAL PHILOSOPHY

PROFESSOR OF PHILOSOPHY—George Humphrey, M.A., Ph.D.

ASSOCIATE PROFESSOR—Gregory Vlastos, M.A., Ph.D.

REGULATIONS

1. Students choosing Philosophy as one of their main subjects on a Pass Course will take courses 1, 2, and one of 10, 12, or 24a and 26b.

2. Students taking an Honours Course in Philosophy and who do not take courses 1 and 2 in the same year will be permitted to combine one of these courses with appropriate Honours classes.

3. For information in regard to Scholarships in Mental and Moral Philosophy see page 59.

For Honours in Philosophy a student must take:

(a) Twelve courses for Major as follows:

Seven courses in Philosophy, viz.: (i) Philosophy 1, 2, 10, 14a, 16b, 18, 22, 29, or (ii) Philosophy 1, 2, 10, 12, 22, 24a, 26b, 30.

Two supporting courses must be taken with each option. For (i) these will ordinarily be Politics 2; French 2, or Latin 2: for (ii), Biology 2; French 2, or Latin 2.

Three Reading courses, R 1, R 2, R 3, or R 4, R 5, R 6.

(b) Five courses for Minor in History, Economics, English, Biology, Classics or Mathematics.

(c) Six compulsory general courses to complete the work for degree: With History as Minor: English 1, 2, French 1 or German 1 or Greek 1, Latin 1 or Mathematics 1, one free option, one science. (Biology 2 is recommended if not taken).

With Economics as Minor: English 1, 2, French 1 or German 1 or Greek 1, Latin 1 or Mathematics 1, one free option, one science. (Biology 2 is recommended).

With English as Minor: Latin 1, French 1, one science, three free options.

With Biology as Minor: English 1, 2, French 1 or German 1 or Greek 1, Mathematics 1, one free option, one science. (Chemistry 1 is recommended).

With Latin as Minor: English 1, 2, French 1 or German 1 or Greek 1, two free options, one science. (Biology 2 is recommended).

With Mathematics as Minor: English 1, 2, French 1 or German 1 or Greek 1, one science, two free options. (Politics 2 is recommended.)

PHILOSOPHY 1. INTRODUCTION TO PHILOSOPHY.

The aim of the course is to introduce the student to the method of critical thinking. Some of the main problems in epistemology and ethics will be indicated, and elementary answers will be considered.

Suggested Reading:

Russell, *Problems of Philosophy* (Home University Library).

Perry, *The Moral Economy* (Scribners).

Extramural students may be asked to buy an additional text.

Monday, Wednesday, and Friday at 9.

Professor Vlastos.

PHILOSOPHY 2. PSYCHOLOGY.

An elementary survey of mental life.

Text-books:

Pillsbury, *Essentials of Psychology*, 3rd edition (Macmillan).

Kimball Young, *Source Book for Social Psychology* (Knopf).

Allport, *Social Psychology* (Houghton Mifflin).

Extramural students will buy also

Humphrey, *Story of Man's Mind*, new edition, 1932 (Dodd Mead).

Tuesday, Thursday, and Saturday at 11.

Professor Humphrey.

PHILOSOPHY 10. HISTORY OF PHILOSOPHY.

A survey of the major philosophical systems in their historical development. The course will include:

- (a) Ancient Philosophy: Ionians, Eleatics, Pythagoreans, Atomists; Plato; Aristotle; Stoics and Epicureans;
- (b) Modern Philosophy: Descartes, Spinoza, Leibniz; Locke, Berkeley, Hume; Kant and German Idealism.

Text-books:

Rogers, *A Student's History of Philosophy* (3rd edition),
(Macmillan).

Extramural students are also required to buy

Plato, *Selections*, edited by Demos (Scribners),
and

Aristotle, *Selections*, edited by Ross (Scribners).

Monday, Wednesday, and Friday at 10.

Professor Vlastos.

PHILOSOPHY 12. PSYCHOLOGY OF THE CHILD.

The aim of this course is to give a psychological insight into the problems of the development and education of the child and young person. The theory and application of mental testing are discussed, and arrangements will be made for practical work in testing.

Text-books:

Freeman, *Individual Differences* (Holt).

Freeman, *Mental Tests* (Houghton Mifflin).

Sandiford, *Educational Psychology* (Longmans).

Readings are also required in other texts.

Professor Humphrey.

Not offered in 1936-7.

PHILOSOPHY 14a. AESTHETICS.

The course aims to introduce the student to the general question of the meaning of beauty and its place in experience.

Text-book:

Rader, *A Modern Book of Aesthetics* (Holt).

Professor Vlastos.

Not offered in 1936-37.

PHILOSOPHY 16b. CONTEMPORARY MOVEMENTS IN PHILOSOPHY.

A study of typical figures in the philosophy of the twentieth century: Bosanquet, Bergson, Santayana, Whitehead, Dewey, and others.

Text-book:

Robinson, *Anthology of Recent Philosophers* (Crowell).

Further reading to be assigned.

Professor Vlastos.

Not offered in 1936-37.

PHILOSOPHY 18. MORAL AND SOCIAL PHILOSOPHY.

The general approach will be as follows:

(a) Historical: the development of moral ideas through primitive, classical, mediaeval, and modern periods.

(b) Systematic: theoretical problems (e.g., the good, duty, virtue, pleasure, conscience, freedom) and representative answers (Plato, Aristotle, Epicurus, Epictetus, Spinoza, Hobbes, Shaftesbury, Hume, Rousseau, Kant, Bentham, Mill, Nietzsche).

(c) Social: application of theory to the contemporary scene (moral problems in politics, economics, the family).

Text-book:—

Dewey and Tufts, *Ethics* (Revised Edition, Holt).

Tuesday, Thursday, and Saturday at 10.

Professor Vlastos.

PHILOSOPHY 20. CONTEMPORARY MOVEMENTS IN PSYCHOLOGY.

Arranged for extramural students.

PHILOSOPHY 22. THE PRINCIPLES OF PSYCHOLOGY.

A systematic presentation of present day psychological doctrine, which is discussed in the light of the experimental evidence. The course involves practical work, the hours of which will be arranged.

Text-book to be announced.

Reading is also required in the current literature.

Monday, Wednesday, and Friday at 11.

Professor Humphrey.

PHILOSOPHY 24a. ABNORMAL PSYCHOLOGY.

A study of the more modern theories of abnormal mental function, with their relation to normal psychology and everyday mental hygiene.

W. MacDougall, *Abnormal Psychology* (Scribners).

Readings are also required in other texts.

Tuesday, Thursday, and Saturday at 9.

Professor Humphrey.

PHILOSOPHY 26b. HISTORY OF PSYCHOLOGY.

Discusses the solutions that representative psychological thinkers from Greek times to the present day have given of certain persistent problems, such as the relation of the mind to the body and the unity of the mind. The relation of these problems to modern psychological systems is considered.

Rand, *Classified Psychologists* (Houghton Mifflin).

Hulin, *A Short History of Psychology* (Holt).

Tuesday, Thursday, and Saturday at 9.

Professor Humphrey.

PHILOSOPHY 29. LOGIC.

A survey of Aristotelian and symbolic logic.

Cohen and Nagel, *Introduction to Logic and Scientific Method* (Harcourt, Brace).

Not offered in 1936-37.

Professor Vlastos.

PHILOSOPHY 30. PROBLEMS IN PSYCHOLOGY.

A specific problem of a minor character is taken up experimentally. A comprehensive report will be required, which will exhibit the results of the experimental work and give an account of the previous literature. This course is open for advanced students only, and by permission of the instructor.

Hours by arrangement.

Professor Humphrey.

READING COURSES IN PHILOSOPHY.

R 1. Metaphysics of Plato.

A study of the philosophy of Plato with special attention to the later dialogues.

Plato, *Symposium* (Paragraphs 201d-212c), *Theaetetus*, *Parmenides* (First part: to paragraph 136), *Sophist*, *Politicus*, *Philebus*, *Timaeus* (Paragraphs 27c to 52c).

A. E. Taylor, *Plato* (relevant parts).

R 2. History of Ethics.

Detailed Readings in the classical moralists.

(A continuation of Philosophy 18.)

Plato, *Republic*.

Aristotle, *Nicomachean Ethics* (Books I to V, incl.; VIII to X, incl.).

Kant, *Metaphysic of Morals*.

R 3. Aesthetic Theory and Application.

Three books will provide the theoretical foundation.

Santayana, *The Sense of Beauty* (Scribners).

Prall, *The Aesthetic Judgment* (Crowell).

Harrison, *Ancient Art and Ritual* (Home University Library).

The suggested application is that of a general survey of art.

Holmes, *Grammar of the Arts* (G. Bell).

The student who has a special interest in one of the arts may consult the Department for alternative reading matter.

R 3a may be taken as an alternative to R 3.

R 3a. Philosophy of Science.

- Emile Meyerson, *Identity and Reality* (George Allen & Unwin).
 E. Cassirer, *Substance and Function* (Open Court).
 A. N. Whitehead, *Science and the Modern World*, Chapters I to IX incl. (Macmillan).

READING COURSES IN PSYCHOLOGY.

R 4. Systematic Psychology.

Murchison, *Foundations of Experimental Psychology*. New edition, 1934 (Clark University). The student should consult the Department concerning certain sections which may be omitted.

Stout, *Manual of Psychology*. Fourth edition, 1929.

The student who is aiming at high Honours is also highly recommended to read

Dumas, G., *Nouveau Traité de Psychologie*, two volumes. (Paris, Alcan, 1930 and 1932.)

R 5. Contemporary Schools of Psychology.

Woodworth, *Contemporary Schools of Psychology* (Ronald Press, New York).

Hartman, *Gestalt Psychology* (Ronald Press).

Spearman, *The Abilities of Man* (Macmillan).

Watson, *Behaviorism* (Norton).

Murchison, *Psychologies of 1925-1930* (Clark University Press).

The student will be expected to show a familiarity with current psychological literature.

R 6. Applied Psychology.

Poffenberger, *Applied Psychology* (Appleton).

Viteles, *Industrial Psychology* (Cape).

Murchison, *Handbook of Child Psychology*. Second edition, revised. (Clark University Press. Apply to the Department concerning certain sections which may be omitted.)

Murphy, *Experimental Social Psychology*.

A student with special interests may, at the discretion of the Department, substitute other texts for those listed in R 6.

GRADUATE COURSES

Lecture courses and Directed Special Studies will be offered by the Department as needed.

MATHEMATICS

PROFESSOR—J. Matheson, M.A.

PROFESSOR—C. F. Gummer, M.A., Ph.D.

PROFESSOR—N. Miller, M.A., Ph.D.

ASSOCIATE PROFESSOR—K. P. Johnston, B.A., B.Sc.

LECTURER—G. L. Edgett, M.A., Ph.D.

LECTURER—J. O. Watts, M.A.

LECTURER—R. W. Stevens, B.Sc.

REGULATIONS

1. Mathematics 1, 2, 3a, and 7b, and Astronomy 1 are pass courses, and are open to all who have passed the prerequisites.

2. Students selecting Mathematics as one of their principal subjects for a Pass degree will take Mathematics 1, 2, 3a, and 7b; or Mathematics 1 and 2 and Astronomy 1. See also section 4 below.

3. Students are advised not to attempt an Honours Course in Mathematics unless they have obtained high standing in the preceding pass course. Grade B in such a course is the minimum standing on which a student is allowed to proceed.

4. Students who have a standing of at least Grade B in Mathematics 1, or second class in the Mathematics of Honour matriculation, and who intend to enter the Honours Course in Mathematics, should take courses 2, 10a, and 11b in the same year. They must obtain a standing of at least Grade B in these courses in order to proceed. If they pass these courses, but not with sufficient standing to proceed to Honours, they may count them as credits towards a Pass degree.

Students who have obtained credit in Mathematics 1, 2, 10a, and 11b, and are not proceeding with the Honours Course may count these to make Mathematics one of their principal subjects for a Pass degree.

5. Students who have taken Mathematics 10a and 11b and wish to proceed to Honours must obtain through the Registrar permission to do so. Such permission should be obtained as soon as possible after the completion of these courses.

6. The work to be completed for the degree of B.A. with Honours, with Mathematics as a Major, consists of the following:—

- (a) Courses for the Major as follows:

Mathematics 1, 2, 10a, 11b, 12a, 14a, 15b, 16b, the courses outlined in Groups A and B in the syllabus given below, and the three reading courses R 1, R 2, R 3.

- (b) Five courses for a Minor in Physics or Economics.

With the consent of the Board of Studies, on the recommendation of the Department of Mathematics, a student may take as his minor a subject other than Physics or Economics.

- (c) Six general courses outside of the major and minor subjects:—

- (i) English 1, 2.
- (ii) French 1, or German 1, or Greek 1.
- (iii) Philosophy 1.
- (iv) One free option.
- (v) Course 1 in any one of the sciences.

If the minor selected is Physics the course in (v) will be replaced by a course freely chosen in any subject other than Mathematics or Physics.

7. The work for a major in Mathematics will normally be covered by the student in five years from Pass Matriculation or in four years from Honour Matriculation. The normal distribution of the work over the five years is as follows:—

1st year—Mathematics 1.

2nd year—Mathematics 2, 10a, 11b.

3rd year—Mathematics 12a, 14a, 15b, 16b, and Reading course 1,

4th year—The courses of Group A, or of Group B, and Reading course 2.

5th year—The courses of Group B, or of Group A, and Reading course 3.

The work of Group A and that of Group B will be offered in alternate years. The student will take them in the order in which they are offered during his Course.

It is advisable for the student to aim at completing the minor subject at least one year before the time of graduation.

When in the work of the first two years a student has shown exceptional ability he may be permitted to take the lectures in Group A or in Group B in his third year and to arrange his reading in such a way that he may complete the whole Course in four years instead of five.

COURSES OF INSTRUCTION

MATHEMATICS 1. TRIGONOMETRY, ANALYTIC GEOMETRY, AND ALGEBRA.

DeLury, *Intermediate Algebra*, (Copp Clark).

Hall and Knight, *Elementary Trigonometry* (as revised 1928), (Macmillan).

Mason and Hazard, *Brief Analytic Geometry* (Ginn).

McGraw-Hill, *Five-place Logarithmic and Trigonometric Tables*.

Monday, Wednesday, and Friday at 8.

Professors Gummer and Miller and Mr. Watts.

The Dupuis Scholarship of \$50.00 is awarded to the student standing highest in this course at the final examinations.

MATHEMATICS 2. DIFFERENTIAL AND INTEGRAL CALCULUS.

Granville, Smith and Longley, *Elements of the Differential and Integral Calculus* (Ginn).

Prerequisite, Mathematics 1.

Monday, Wednesday, and Friday at 8.

Tuesday, Thursday, and Saturday at 8.

Professor Matheson and Dr. Edgett.

The Merkley prize of \$5.00 in books is awarded to the student standing highest in this course at the final examinations.

MATHEMATICS 3a. MODERN SYNTHETIC GEOMETRY.

An elementary course.

Durell, *Modern Geometry* (Macmillan).

Tuesday, Thursday and Saturday at 11.

Professor Matheson.

MATHEMATICS 7b. MATHEMATICS OF INVESTMENT.

Hart, *Mathematics of Investment*, with tables (Heath) (1935-1936).

Prerequisite, Mathematics 1.

Tuesday, Thursday and Saturday at 11.

Dr. Edgett.

ASTRONOMY 1. A COURSE IN DESCRIPTIVE ASTRONOMY.

Baker, *Astronomy* (van Nostrand).

Kingston, *Star Guide*.

Mathematics not prerequisite.

Tuesday, Thursday, and Saturday at 9.

Professor Johnston.

MATHEMATICS 10a. ALGEBRA.

Prerequisite, Mathematics 1.

Hall and Knight, *Higher Algebra* (Macmillan)

Monday, Wednesday, and Friday at 11.

Professor Gummer.

MATHEMATICS 11b. ANALYTICAL GEOMETRY.

Fine and Thompson, *Coordinate Geometry* (Macmillan Co.).

Monday, Wednesday, and Friday at 11.

Professor Matheson.

MATHEMATICS 12a. DETERMINANTS AND THEORY OF EQUATIONS.

Prerequisites, Mathematics 2, 10a.

Dickson, *First Course in the Theory of Equations* (Wiley).

Monday, Wednesday, and Friday at 8.

Dr. Edgett.

MATHEMATICS 14a. SPHERICAL TRIGONOMETRY AND ASTRONOMY.

In connection with this course some work will be done in the observatory.

Prerequisite, Mathematics 2.

Tuesday, Thursday, and Saturday at 8.

Professor Johnston.

MATHEMATICS 15b. ANALYTIC SOLID GEOMETRY.

Open to students who have taken 12a.

Snyder and Sisam, *Analytic Geometry of Space* (Holt)

Monday, Wednesday, and Friday at 8.

Professor Gummer.

MATHEMATICS 16b. DIFFERENTIAL EQUATIONS.

Prerequisites, Mathematics 2, 10a, and 11b.

Miller, *First Course in Differential Equations* (Oxford Press).

Tuesday, Thursday, and Saturday at 8.

Professor Miller.

HONOURS GROUP A. (Offered in 1936-37):—

Six days a week at 9.

MATHEMATICS 17t. ALGEBRA AND CALCULUS OF DIFFERENCES.

Professor Gummer.

MATHEMATICS 18t. MODERN SYNTHETIC GEOMETRY.

Syllabus of work and references will be supplied in class.

Professor Matheson.

MATHEMATICS 19t. ADVANCED CALCULUS.

Use will be made of

Woods, *Advanced Calculus* (Ginn)

and

Osgood, *Advanced Calculus* (Macmillan).

Professor Miller.

HONOURS GROUP B. (Not offered in 1936-37):—

Six days a week at 9.

MATHEMATICS 20t. PROBABILITY AND STATISTICS.

Syllabus of work and references will be supplied in class.

Dr. Edgett.

MATHEMATICS 21t. ADVANCED ANALYTICAL GEOMETRY.

Professor Gummer.

MATHEMATICS 22t. THEORY OF FUNCTIONS OF A COMPLEX
VARIABLE.

Townsend, *Functions of a Complex Variable* (Holt).

Professor Miller

READING COURSES IN MATHEMATICS:

R 1. D. E. Smith, *Essentials of Solid Geometry* (Ginn).

R 2. Macpherson, *Modern Astronomy* (Oxford Press).

Durell and Robson, *Advanced Trigonometry* (Bell).

R 3. Young, *Monographs on Modern Mathematics* (Longmans).

GRADUATE COURSES

Graduate courses for M.A. students will be selected from the following:

MATHEMATICS 100a or b. THEORY OF INFINITE SERIES.

Knopp, *Theory and Application of Infinite Series*.

MATHEMATICS 101a or b. THEORY OF FUNCTIONS OF A REAL VARIABLE.

Reference:

Goursat-Hedrick, *Mathematical Analysis*, Vol. 1 (Ginn).

Townsend, *Theory of Functions of Real Variables* (Holt).

MATHEMATICS 102a or b. MODERN HIGHER ALGEBRA.

Bôcher, *Introduction to Higher Algebra* (Macmillan).

MATHEMATICS 103a or b. DIFFERENTIAL GEOMETRY.

Graustein, *Differential Geometry* (Macmillan).

MATHEMATICS 104a or b. THEORY OF NUMBERS.

MATHEMATICS 105a or b. FOURIER SERIES AND SPHERICAL HARMONICS.

MATHEMATICS 106a or b. MULTIPLE ALGEBRA AND QUATERNIONS.

MATHEMATICS 107a or b. TOPICS IN DIFFERENTIAL EQUATIONS.

PHYSICS

PROFESSOR—A. L. Clark, B.Sc., Ph.D., F.R.S.C.

RESEARCH PROFESSOR—J. A. Gray, O.B.E., D.Sc., F.R.S.C., F.R.S.

PROFESSOR—W. C. Baker, M.A.

PROFESSOR—J. K. Robertson, M.A., F.R.S.C.

PROFESSOR—E. Flammer, B.Sc., Ph.D.

LECTURERS—H. M. Cave, M.A., Ph.D.

B. W. Sargent, M.A., Ph.D.

E. E. Watson, M.Sc., Ph.D.

DEMONSTRATORS—C. W. Clapp, B.Sc.

L. H. Ratz, B.Sc.

REGULATIONS

1. Students offering Physics as one of their chief subjects on a Pass Course will take Physics 1, 2 and 11.

2. For Honours in Physics a student must take:

(a) Twelve courses for Major as follows:

Seven courses in Physics, 1, 2, 11, 12a, 14a, 10b, 13b, 16a, 21a, 17b, 20b, with two supporting courses, Chemistry 1 and a course in Physics or Mathematics or another science, the choice to be made after consultation with the Head of the Department.

Three Reading courses in Physics, R 1, R 2, R 3.

(b) Five courses for Minor in Mathematics or Mathematics and Chemistry. (Note: When the Minor is Mathematics and Chemistry, the second of the two supporting courses shall be Mathematics 10a and 11b.)

(c) Six compulsory general courses to complete the work for degree: English 1, 2, French 1 or German 1 or Greek 1, Philosophy 1, two free options. Students intending to pursue a Major in Physics are strongly advised to acquire a reading knowledge of German.

3. Students desiring a Science Specialist's certificate with Physics as Major, Chemistry as Minor, must include Biology 1 and 2 in the general courses.

COURSES OF INSTRUCTION

PHYSICS 1. MECHANICS, PROPERTIES OF MATTER, HEAT, WAVE-MOTION, SOUND, LIGHT, ELECTRICITY, AND MAGNETISM.

The work of this course is elementary, forming an introduction to the subject. Its purpose is to lay a thorough foundation for

subsequent work in theoretical, experimental, and technical Physics, as well as to give a fairly complete elementary knowledge of the subject to those who do not intend to pursue it further. Only an elementary knowledge of Mathematics is required. This class is usually divided into two sections (a) those going on to further work in Physics, and (b) all others.

Text-books:

(a) Stewart, *Physics* (Ginn & Company)

(b) Saunders, *Survey of Physics* (Henry Holt).

Lectures—Tuesday, Thursday, and Saturday at 11.

Dr. Cave and Dr. Sargent.

Laboratory—Tuesday 1-3, Wednesday 1-3.

Dr. Cave and Dr. Sargent.

PHYSICS 2. LIGHT AND ELECTRICITY AND MAGNETISM.

LIGHT. The work in this section consists of a detailed discussion of vibratory and wave motion; a treatment of Reflection and Refraction from the standpoint of wave theory; and a study of Dispersion, Interference, Diffraction, Spectroscopy, Polarization, and Double Refraction.

ELECTRICITY AND MAGNETISM. A quantitative treatment of phenomena preliminary to the Mathematical Theory of these subjects.

Prerequisite: Physics 1. For allowance given for Honour Matriculation in Physics see section 8 under ADMISSION.

Texts:

Robertson, *Introduction to Physical Optics* (Van Nostrand).

Loeb, *Fundamentals of Electricity and Magnetism* (Wiley).

Lectures—Tuesday, Thursday, and Saturday at 9.

Professor Robertson.

Laboratory—Thursday, 3-5.

Professor Robertson and Dr. Cave.

PHYSICS 11. MECHANICS.

The work of the class is the consideration of the fundamental principles of Mechanics, developing those dealt with in Physics 1 and proceeding to the Mechanics of Impact, Rotation, Simple Harmonic Motion, etc. A large part of the work will be the solution of problems in which the elementary calculus will be freely used.

Prerequisites—Physics 1 and Mathematics 2. For Pass students Physics 2 is also prerequisite. Students on an Honours course with Grade B standing in Physics 1 and Grade A standing in Mathematics 2 (or in Honour Matriculation Mathematics) may take Physics 2 and Physics 11 in the same year.

Lectures—Monday and Friday at 2.

Laboratory—Wednesday, 1-3.

Professor W. C. Baker.

PHYSICS 10b. DYNAMICS OF A PARTICLE.

A series of lectures in which the elements of statics and dynamics of a particle are discussed.

Text-book:

Lamb, *Dynamics* (Cambridge University Press).

Prerequisites—Physics 2 (62%) and Physics 11 (55%).

Lectures—Tuesday and Thursday at 10.

Laboratory—Thursday, 3-5.

Professors Flammer and W. C. Baker.

PHYSICS 12a. INTRODUCTION TO THE MATHEMATICAL THEORY OF ELECTRICITY AND MAGNETISM.

Prerequisites—Physics 2 (62%) and Physics 11 (55%).

Lectures—Tuesday and Thursday at 10.

Laboratory—Tuesday, 3-5.

Professor W. C. Baker.

PHYSICS 13b. ATOMIC PHYSICS.

In this course an attempt is made to acquaint the student with some of the modern developments in Physics. Lectures are given on such topics as, The Structure of the Atom, Conduction of Electricity through Gases, Radioactivity and X-rays.

Prerequisites—Physics 2 (62%) and Mathematics 2.

Text-book:

J. A. Crowther, *Ions, Electrons and Ionizing Radiations.*

(Arnold).

Lectures—Monday and Wednesday at 10.

Laboratory—Tuesday, 3-5.

Professor Gray and Dr. Cave.

PHYSICS 14a. HEAT.

A course beginning with a comprehensive treatment of the isothermal, continuing with a study of the basis of thermometry and the laws of Thermodynamics and closing with a discussion of entropy and its applications.

Prerequisites—Mathematics 2 and Physics 2 (62%).

Lectures—Monday, Wednesday, and Friday at 10.

Laboratory—Thursday, 3-5.

Professor Clark and Dr. Cave.

PHYSICS 16a. DYNAMICS OF RIGID BODIES.

A discussion of Motions of a Rigid Body, Ellipsoids of Inertia, Motion with Fixed Axis and Fixed Point, Euler's Equations, and applications to Motion of the Symmetrical Top.

Prerequisite—Physics 10b (55%).

Text-book:

Gans, *Vector Analysis* (Blackie).

Lectures—Monday, Wednesday, and Friday at 11.

Professor Flammer.

PHYSICS 17b. PHYSICAL OPTICS.

A course of lectures on the theory and phenomena of Physical Optics, including a discussion of Wave Motion, Diffraction, Interference Spectroscopes, Spectroscopy, Polarization and Double Refraction.

Prerequisites—55% on each of Physics 10b, 12a, and 13b.

Lectures—Tuesday and Thursday at 11.

Laboratory—Tuesday 2-4.

Professor Robertson.

PHYSICS 20b. ELECTRICITY AND MAGNETISM.

Electrodynamics.

Prerequisites—55% each on Physics 10b, 12a and 13b.

Text-book:

Abraham and Becker, *Classical Magnetism and Electricity* (Blackie).

Lectures—Monday, Wednesday, and Friday at 11.

Professor Flammer.

PHYSICS 21a. KINETIC THEORY OF GASES.

Prerequisites—55% on each of Physics 10b, 12a, 13b, and 14a.

Text-book:

Bloch, *Kinetic Theory of Gases*.

Lectures—Tuesday, Thursday, and Saturday at 11.

Professor Gray.

PHYSICS 22. ADVANCED LABORATORY COURSE.

This is the equivalent of a whole lecture course and may be one of the two supporting courses, when Physics is chosen as a Major. (See 2(a), page 162).

READING COURSES IN PHYSICS.

- R 1. Maxwell, *Matter and Motion* (Sheldon Press).
 Wood, *Sound Waves and Their Uses* (Blackie).
 Pohl, *Electricity and Magnetism* (Blackie).

- R 2. McKenzie, *The Laws of Gravitation* (American Book Company).
 Poynting and Thomson, *Properties of Matter* (Charles Griffin).

- R 3. Planck, *Thermodynamics*, translation of 7th edition (Longmans).

The principal Physics Journals and books relating to the lectures and the laboratory work are kept in the Library of the Physics Department and in the University Library, where they may be freely consulted by the students. Certain of these may be borrowed for limited periods by making application to the librarians in charge.

GRADUATE COURSES

Lecture courses: A minimum of three lectures a week on selected topics.

PHYSICS 27 a or b. MECHANICS.

The development and application of such important principles as the Principle of Virtual Work, Principle of d'Alembert, Hamilton's Principle of the Least Action, Lagrange's Equations, and a brief treatment of Non-Newtonian Mechanics.

Three hours.

Professor Flammer.

PHYSICS 35. DIRECTED SPECIAL STUDIES.

CHEMISTRY

PROFESSOR OF CHEMISTRY—Arthur C. Neish, B.A., A.M., Ph.D.,
F.C.I.C.

PROFESSOR—J. A. McRae, M.A., Ph.D., F.I.C.

ASSOCIATE PROFESSOR—J. F. Logan, B.A., A.M., Ph.D., F.C.I.C.

ASSISTANT PROFESSOR—Grenville B. Frost, B.A., Ph.D.

ASSISTANT PROFESSOR—L. A. Munro, M.A., Ph.D., F.C.I.C.

ASSISTANT PROFESSOR—Roy L. Dorrance, M.A., F.C.I.C.

INSTRUCTOR—E. H. Charlesworth, M.A., D.Phil.

MILTON HERSEY FELLOW—Charles F. Hubbs, B.Sc.

DEMONSTRATORS—G. L. Bateman, B.A.

A. D. Matheson, B.A.

J. S. C. Perry, B.Sc.

M. T. Saunders, B.A.

G. L. Renzoni, B.Sc.

REGULATIONS

1. Chemistry 1 and 2 are prerequisite to all other courses in Chemistry.

2. Students offering Chemistry as one of the main subjects for a Pass degree will take Chemistry 1, 2, and 3. For entrance to all other Chemistry courses Grade B in Chemistry 2 is necessary.

3. For Honours in Chemistry under the new Course, a student must take:

(a) Twelve courses for Major as follows:

Chemistry 1, 2, 12, 13, 14, 16 or 17, 22, 24, 25.

Three Reading courses, R 1, R 2, R 3.

(b) Five courses for Minor: Mathematics 2 with four courses in Physics or Biology or Mineralogy and Geology.

(c) Six compulsory general courses to complete the work for degree: English 1, 2, French 1 or German 1 or Greek 1, Philosophy 1, Mathematics 1, one free option (Physics 1 unless the student already has credit for this course).

4. Students desiring the Specialist's certificate with Chemistry as Major and Physics as Minor, must include Biology 1 among the general courses. They will substitute Biology 2 for one of Chemistry 22, 24, 25.

If Biology is taken as Minor with a Major in Chemistry, Physics 1 must be included in the general courses and Physics 2 will be substituted for one of Chemistry 22, 24, 25.

5. Students taking Honours in Chemistry must consult the Head of the Department after they have passed Chemistry 2.

6. For information in regard to Scholarships in Chemistry see page 60.

COURSES OF INSTRUCTION

General and Inorganic Chemistry

CHEMISTRY 1. GENERAL CHEMISTRY.

This course besides dealing with the history, methods of preparation, properties and industrial application of the most important non-metals and metals and their compounds, emphasizes the fundamental theories, laws and principles of Chemistry. Elementary analytical chemistry is introduced and a few simple unknowns are given. This course is open to beginners in Chemistry.

Texts—Kendall, *Smith's College Chemistry* (Century Co.)

Belcher and Colbert, *Properties and Numerical Relationships of the Common Elements and Compounds* (Century Company).

Lectures—Monday, Wednesday, Friday at 9, Room 310, Gordon Hall.

Laboratory—Thursday, 1-3, in Room 305 and 307, Gordon Hall.

Professor Neish and Assistants.

Qualitative Analysis

CHEMISTRY 2. QUALITATIVE ANALYSIS.

The lectures deal with the theory of analytical chemistry. The modern concept of the structure of matter is related to analytical behaviour. The development and application of the laws of equilibrium and solutions are emphasized.

The laboratory work consists of the systematic analysis of basic and acid ions leading to the analysis of alloys, salt mixtures, minerals and various commercial products.

Prerequisite—Chemistry 1.

Texts—Miller, *Theory of Qualitative Analysis* (Century Co.).

A. A. Noyes, *Qualitative Chemical Analysis*, 1922 edition, (Macmillan Co.).

Reference Texts—

Brockman, *Qualitative Analysis* (Ginn and Co.).

Stieglitz, *Qualitative Chemical Analysis*, Vol. 1 (Century Co.).

Treadwell and Hall, Vol. I (Wiley).

Engelder, *Calculations of Qualitative Analysis* (Wiley).

Curtman, *Qualitative Chemical Analysis* (Macmillan).

Lectures—Tuesday and Thursday, 11-12.

Laboratory—Wednesday, 1-4, or Friday, 1-4.

Professor Munro.

CHEMISTRY 3. QUANTITATIVE ANALYSIS.—Pass Course.

This is an elementary course designed to illustrate the fundamental procedures of Quantitative Analysis. Gravimetric determinations are made of sulphur, chlorine, iron and phosphorous. A full treatment of volumetric analysis is given, including acidimetry and oxidation-reduction methods. The determinations include iron, chromium and manganese in simple ores, iodimetric copper, the analysis of brass, and other similar determinations.

Text:—Talbot, *Quantitative Chemical Analysis* (Macmillan)

Lectures—Thursday at 1 in room 310.

Laboratory—Tuesday, 1-5, in room 207.

Professor Dorrance and Dr. Charlesworth.

CHEMISTRY 12. ORGANIC CHEMISTRY.

An elementary course in general organic chemistry. The properties of some of the more important compounds are studied in the laboratory and a number of them prepared.

Prerequisite—Chemistry 1, 2.

Texts:

Kipping and Kipping, Perkin and Kipping's *Organic Chemistry*, Parts I and II (W. R. Chambers).

Adams and Johnson, *Laboratory Experiments in Organic Chemistry* (Macmillan Co.).

Lectures—Wednesday and Friday, at 11.

Laboratory—Wednesday 1-4, or Tuesday 1-4, or Saturday 9-12.

Professor McRae.

CHEMISTRY 13. QUANTITATIVE ANALYSIS.—Honours Course.

The class-room work is of a more advanced nature than that of Pass course 3, and the laboratory determinations cover a wider range of practice and technique.

Text:

Willard-Furman, *Elementary Quantitative Analysis*

(Van Nostrand).

NOTE.—For intramural Honours students this is a whole course. For extramural students at Summer School it is divided into half-courses, offered in successive years, and may be taken by either Pass or Honours students.

Lectures—Monday and Wednesday at 9.

Laboratory—Thursday, 1-4.

Professor Frost and Dr. Charlesworth.

CHEMISTRY 14. PHYSICAL CHEMISTRY.

The elementary principles of physical chemistry; the gas laws; the law of mass action; the ideal solution laws; the phase rule; electrolytic solutions; thermochemistry.

Prerequisite—Chemistry 1, 2, 12, 3 or 13, or 3 or 13 and 14 in the same year.

Text:

Millard, *Physical Chemistry for Colleges*

Lectures—Tuesday and Thursday at 9.

Laboratory—Tuesday, 1-4.

Professor Frost.

CHEMISTRY 15a. COLLOID CHEMISTRY.

An introductory course of four hours per week for the first term. The lectures will deal with the general properties of colloids, surface phenomena, adsorption, etc. The laboratory work is illustrative of the topics dealt with in lectures and includes the preparation of colloids by different methods and a study of their electrical properties, coagulation, surface tension, viscosity, adsorption, gels, etc. Each student is required to write an essay on an assigned phase of applied colloid chemistry.

Prerequisite—Physics 1 and Chemistry 1, 2, 12, 3, or 13, and 14; or Chemistry 15a and 12, 3 or 13, and 14 may be taken in the same year.

Texts:

Holmes, *Lab., Manual of Colloid Chemistry* (Wiley and Sons).

Hatschek, *Introduction to Physics and Chemistry of Colloids*.
5th edition (Blakistons Sons and Co.).

Reference Texts:

Alexander, *Colloid Chemistry*, Vols. I-IV (Chem. Catalogue Co.).

Weiser, *Hydrous Oxides* (McGraw-Hill Co.).

Colloid Symposia Reports and Current Chemical Journals.

Lectures—Friday at 10.

Laboratory—Tuesday at 1-4.

Professor Munro.

CHEMISTRY 16. PHYSIOLOGICAL CHEMISTRY.

The course includes a detailed study of the properties of the carbohydrates, lipoids and proteins and of the chemical processes involved in respiration, secretion, digestion, absorption, metabolism and excretion and the chemistry of the tissues. The composition of foods and the elements of the science of nutrition are also discussed.

Prerequisite—Chemistry 1, 2, 12, 13 or their equivalent.

Texts:

Bodansky, *Introduction to Physiological Chemistry* (John Wiley and Sons).

Hawk and Bergeim, *Practical Physiological Chemistry* (Blakiston).

Lectures—Monday and Friday at 11, in room 400, Gordon Hall.

Laboratory—Thursday or Friday 1-3, and Wednesday or Thursday 3-4.

Professor Logan.

CHEMISTRY 17. INDUSTRIAL CHEMISTRY.—*Lectures and Laboratory.*

In the lectures the following topics, illustrated by specimens, lantern slides, motion pictures, and visits to plants will be discussed: Industrial applications of air and water, natural gases, petroleum products, producer gas, coal gas, water gas, by-product coke, sulphur, sulphuric acid, sulphite, pulp and paper, hydrochloric acid, nitric acid, and ammonia, nitrates natural and synthetic, soda, fertilizers, mortars and cements.

In the laboratory typical industrial processes such as crystallization, precipitation, filtration, distillation and rectification, incomplete reactions, gas analysis and industrial flow sheets will be carried out and interpreted.

Prerequisite—Chemistry 1, 2, 12, 13 and Physics 1.

Chemistry 17 and 12 or 13 or both may be taken in the same year.

Texts:

Rogers, *Manual of Industrial Chemistry* (Van Nostrand).

Atack, *Chemist's Year Book*, (Westman Press) or Olsen,

Van Nostrand's Annual (Van Nostrand), or Perry *Chemical Engineer's Handbook* (McGraw-Hill).

Lectures—Tuesday and Thursday at 10 in room 310, Gordon Hall.

Laboratory—Monday, 1-4, in room 40, Gordon Hall.

Professor Neish.

CHEMISTRY 21b. ADVANCED GENERAL CHEMISTRY.

The work of this course is devoted to the study of sorption, homogeneous and heterogeneous catalysis, with technical applications.

Prerequisite—Chemistry 1, 2, 12, 13, 14.

Lectures—Monday at 11, Friday at 11.

Professor Munro.

CHEMISTRY 22. ADVANCED ORGANIC CHEMISTRY.

Advanced systematic organic chemistry, including lectures on special topics such as terpenes, alkaloids, stereoisomerism and carbohydrates. The laboratory work includes both practice in organic qualitative and quantitative analysis, and practice in the preparation of a considerable number of substances illustrating the general methods and reactions of Organic Chemistry.

Prerequisite—Chemistry 1, 2, 12, 13, 14, or Chemistry 22, and 14 may be taken in the same year.

Texts:

Kipping and Kipping, *Perkin and Kipping's Organic Chemistry*, Parts I, II and III (W. & R. Chambers).

Gattermann and Wieland, *Laboratory Methods of Organic Chemistry* (Macmillan Co.).

Books of Reference:

Cohen, *Advanced Organic Chemistry* (Arnold).

Henrich-Johnson, *Theories of Organic Chemistry* (Wiley and Sons).

Lectures—Tuesday and Thursday at 11.

Laboratory—Saturday, 9-12, or Wednesday, 1-4.

Professor McRae.

CHEMISTRY 24. ADVANCED PHYSICAL CHEMISTRY.

Chemical thermodynamics; the calculation of free energy and entropy; the mechanism of chemical reactions; elementary atomic theory.

Prerequisite—Chemistry 1, 2, 12, 13, 14, and a knowledge of calculus.

Lectures—Tuesday and Thursday at 10.

Laboratory—Friday, 1-4.

Professor Frost.

CHEMISTRY 25. PHYSICAL CHEMISTRY, ELECTRO-CHEMISTRY.

This course is designed to acquaint the student with the application of electricity to aqueous solutions considering such quantities as the mechanism of electrolysis, transport numbers and ionic migration, solvation of ions, conductance of solutions, modern dissociation theory, reversible cells with and without diffusion, hydrogen electrode, polarization, overvoltage, anodic and cathodic reactions. Some industrial applications such as storage batteries, electrolysis of fused salts, electroplating are discussed. The laboratory work consists in the determination of the quantities discussed in the lectures, electrometric titrations, and the production, electrolytically, of such compounds as ammonium persulphate and white lead.

Prerequisite—Chemistry 1, 2, 12, 13, 14.

Texts:

Creighton-Koehler, *Electrochemistry*, Vol. I (Wiley).

Findlay, *Practical Physical Chemistry* (Longmans, Green and Co.).

Reference:

Thomson, *Theoretical and Applied Electrochemistry* (Macmillan Co.).

Blum and Hogaboom, *Principles of Electroplating and Electroforming* (McGraw-Hill).

Kolthoff and Furman, *Potentiometric Titrations* (John Wiley).

Allmand, *Applied Electrochemistry* (Arnold).

Lectures—Monday at 10 in 310, Tuesday at 8 in 105, Gordon Hall.

Laboratory—Wednesday, 1-4, in 301, Gordon Hall.

Professor Dorrance.

READING COURSES IN CHEMISTRY:

R 1. Inorganic Chemistry.

Lowry, *Inorganic Chemistry* (Macmillan Co.).

or Partington, *Text-book of Inorganic Chemistry* (Macmillan Co.).

Professor McRae.

R 2. Colloid Chemistry.

Freundlich, *New Conceptions in Colloid Chemistry*.

Selections from Kolloid Beihefte and other Chemical Journals, or Bancroft, *Applied Colloid Chemistry* (McGraw-Hill).

Weiser, *Inorganic Colloidal Chemistry* (Wiley and Sons).

Professor Munro.

R 3. History of Chemistry.

H. M. Caven, *The Foundations of Chemical Theory*.

Campbell Brown, *A History of Chemistry*.

Armstrong, *The Art and Principles of Chemistry*.

Weeks, *The Discovery of the Elements*.

Professor Dorrance.

GRADUATE COURSES

CHEMISTRY 31. GENERAL AND INORGANIC CHEMISTRY—*Research Training*.

For graduate students electing thesis work in Inorganic Chemistry.

Professors Neish, Frost and Munro.

CHEMISTRY 32. ORGANIC CHEMISTRY—*Research Training*.

For graduate students electing thesis work in Organic Chemistry.

Professor McRae.

CHEMISTRY 33. QUANTITATIVE ANALYSIS—*Research Training.*

For graduate students electing thesis work in Quantitative Analysis.

Professor Frost.

CHEMISTRY 34. PHYSICAL CHEMISTRY—*Research Training.*

For graduate students electing thesis work in Physical Chemistry.

Professors Frost and Dorrance.

CHEMISTRY 35. COLLOID CHEMISTRY—*Research Training.*

For graduate students electing thesis work in Colloid Chemistry.

Professor Munro.

CHEMISTRY 36. PHYSIOLOGICAL CHEMISTRY—*Research Training.*

For graduate students electing thesis work in Physiological Chemistry.

Professor Logan.

CHEMISTRY 37. INDUSTRIAL CHEMISTRY—*Research Training.*

For graduate students electing thesis work in Industrial Chemistry.

Professor Neish.

CHEMISTRY 44. GRADUATE COURSE.

A graduate course dealing with special topics in advanced Physical Chemistry.

Professors Frost and Munro.

BIOLOGY

PROFESSOR—W. T. MacClement. M.A., D.Sc.

PROFESSOR—R. O. Earl, B.A., S.M., Ph.D.

ASSISTANT PROFESSOR—John Stanley, M.A., Ph.D.

LECTURER—G. Krotkov, M.A., Ph.D.

REGULATIONS

1. Students taking only one course in this department must choose either Biology 1 or Biology 2; it is not necessary to take Biology 1 before Biology 2.

2. A student selecting Biology as one of the chief subjects on a Pass Course will take Biology 1, 2, and either 11 or 16.

3. For information in regard to Scholarships in Biology see pages 60-61.

4. A student desiring Specialist standing in Biology may offer the Course for Teachers, or the Course for Botanists, or the Course for Zoologists, as given below with Physics 2 included among the general courses.

5. For Honours in Biology a student must take:

1. *Course for Teachers.*

(a) Twelve courses for Major as follows:

Biology 1, 2, 11, 12, 16, 17, 18, 21, with one supporting course, Physics 1.

Three Reading courses in Biology, R 1, R 2, R 3.

(b) Five courses for Minor: four courses in Chemistry with Physics 2.

(c) Six compulsory general courses to complete the work for degree: English 1, 2, French 1 or German 1 or Greek 1, Philosophy 1, Mathematics 1, one free option.

2. *Course for Botanists.*

(a) Twelve courses for Major as follows:

Biology 1, 2, 11, 12, 21, 31, 45, with two supporting courses, Bacteriology 10 and Geology 1.

Three Reading courses in Biology, R 1, R 2, R 3.

(b) Five courses for Minor: four courses in Chemistry with Physics 1.

(c) Six compulsory general courses as stated in 1(c).

3. *Course for Zoologists.*

(a) Twelve courses for Major as follows:

Biology 1, 2, 16, 17, 18, 26, 36, 45, with one supporting course, Bacteriology 10.

Three Reading courses in Biology, R 1, R 2, R 3.

- (b) Five courses for Minor: four courses in Chemistry with Physics 1.
- (c) Six compulsory general courses as stated in 1(c).

COURSES OF INSTRUCTION

BIOLOGY 1. GENERAL BOTANY.

The fundamental facts and principles of plant life. A careful study of form, structure and reproduction of representatives of the principal groups. Attention is given to life processes, particularly in the higher plants.

Textbook: Holman and Robbins, *Textbook of General Botany*, 3rd edition (Wiley).

Lectures—Tuesday and Thursday at 9.

Laboratory—Section A, Monday, 2-4.

Section B, Wednesday, 1-4.

Note—Students taking more than one course in this Department must attend Section B.

Professor Earl.

BIOLOGY 2. GENERAL ZOOLOGY.

The classification, comparative anatomy, physiology, development, evolution, distribution and economic importance of animals. Laboratory work on the anatomy of representatives of the main classes of animals.

Textbooks:

Hegner, *College Zoology*, 3rd ed. (Macmillan).

Wolcott, *Animal Biology* (McGraw-Hill).

Lectures, Tuesday and Thursday at 10.

Laboratory—Section A, for students taking not more than one course in Biology, Wednesday, 1-4.

Section B, for students taking more than one course in Biology, Monday, 1-4.

Professor Stanley.

COURSES MAINLY MORPHOLOGICAL

BIOLOGY 11. PHANEROGAMIC BOTANY.

Taxonomy, morphology, life histories and evolution of seed plants. Special attention is given to representatives of the local flora.

Prerequisite—Biology 1.

Lectures—Tuesday and Thursday at 9.

Laboratory—Tuesday, 1-4.

BIOLOGY 12. CRYPTOGAMIC BOTANY.

The lower plants treated as described for the seed plants in Biology 11.

Prerequisite—Biology 1.

Lectures—Monday and Wednesday at 9.

Laboratory—Thursday, 1-4.

BIOLOGY 16. COMPARATIVE VERTEBRATE ANATOMY AND TAXONOMY.

A careful study of the comparative anatomy and taxonomy of the leading classes of vertebrate animals.

Lectures—Tuesday and Thursday at 8.

Laboratory—Monday, 1-4.

BIOLOGY 17. COMPARATIVE INVERTEBRATE ANATOMY AND TAXONOMY.

A careful study of the comparative anatomy, evolution, development and taxonomy of representatives of the leading classes of invertebrate animals *other than the Arthropoda*. Instruction in the technique of preparation of specimens of invertebrates.

Lectures—Tuesday and Thursday at 11.

Laboratory—Friday, 1-4.

BIOLOGY 18. COMPARATIVE ANATOMY AND TAXONOMY OF THE ARTHROPODA.

A broad but thorough study of the leading representatives of the *Arthropoda*, the course being particularly designed to give a foundation for further work in entomology or arthropod parasitology. Instruction in methods of preparation of specimens of arthropods.

Prerequisites—Biology 2, 17.

Lectures—Monday and Wednesday at 10.

Laboratory—Tuesday, 1-4.

Offered in alternate years with Biology 36. Offered in 1936-37.

COURSES IN PHYSIOLOGY**BIOLOGY 21. PLANT PHYSIOLOGY.**

A general study of the following topics: carbon and nitrogen metabolism, nutrition, permeability, water-relations and growth.

Prerequisites—Biology 1, Chemistry 12.

Lectures—Tuesday and Thursday at 8.

Laboratory—Hours to be arranged.

BIOLOGY 23. ANIMAL PHYSIOLOGY.

Study of the general principles of Physiology, and the physiological investigation of blood, circulation, respiration, muscle, and nervous system. The physiology of digestion, metabolism, excretions, and internal secretions.

Prerequisite—Biology 16.

COURSES IN ECOLOGY

BIOLOGY 31. PLANT ECOLOGY.

A study of the origin and development of plant associations in relation to environment. The relations of plants to latitude, altitude, climate, and other distributive factors. Ecological anatomy. Laboratory and field work.

Textbook:

Weaver and Clements, *Plant Ecology* (McGraw-Hill).

Prerequisite—Biology 11.

Lectures—Monday and Wednesday at 10.

Laboratory—Friday, 1-4.

BIOLOGY 36. ANIMAL ECOLOGY.

The inter-action between animals and their environment; study of the environmental factors which influence animals; the growth of population; inter-actions between hosts and parasites; biological control of pests by the use of parasites and predators; methods of analysing biological data.

Prerequisites—Biology 16, 17, 18.

Textbooks:

Chapman, *Animal Ecology* (McGraw-Hill).

Pearse, *Animal Ecology* (McGraw-Hill).

Other reading to be assigned.

Lectures—Monday, Wednesday, and Friday at 10

Offered in alternate years with Biology 18

Not offered in 1936-37.

COURSES IN GENETICS

BIOLOGY 45. EVOLUTION AND GENETICS.

A consideration of data and concepts of organic evolution; the principles of genetics; exercises on variation and heredity in plants and animals.

Textbook:

Sinnott and Dunn, *Principles of Genetics* (McGraw-Hill).

Prerequisites—Biology 1 and 2.

Lectures—Tuesday, Thursday, and Saturday at 10.

READING COURSES IN BIOLOGY

R 1. Biological Theories.

Shull, *Evolution* (McGraw-Hill).

Darwin, *On the Origin of Species*.

Nordenskiöld, *History of Biology*.

Bertalanffy and Woodger, *Modern Theories of Development* (Oxford).

R 2. General Physiology.

C. G. Rogers, *Textbook of Comparative Physiology* (McGraw-Hill).

W. M. Bayliss, *Principles of General Physiology* (Longmans, Green and Co.).

W. O. James, *An Introduction to Plant Physiology* (Oxford).

R 3. Biological Aggregations.

Braun-Blanquet, translated by Fuller and Coward, *Plant Sociology* (McGraw Hill Book Co.).

W. C. Allee, *Animal Life and Social Growth* (Williams and Wilkins).

W. C. Allee, *Animal Aggregations* (University of Chicago Press).

W. M. Wheeler, *Social Life among the Insects* (Harcourt Brace and Co.).

R. M. Maciver, *The Elements of Social Science* (Methuen & Co.).

GRADUATE COURSES

These courses will be given only when feasible and when suitably trained students apply.

BIOLOGY 115. CYTOLOGY.

The structure and life-history of the cell.

Laboratory work, reading and conferences.

Prerequisites—Biology 45.

Hours to be arranged.

BIOLOGY 116. ECONOMIC ENTOMOLOGY.

A study of the taxonomy and control of the leading economic insect pests of Canada.

Prerequisites——Biology 18, 36.

BIOLOGY 117. THE GROWTH OF POPULATIONS.

A mathematical study of the growth of populations, host parasite relations, conservative and dissipative biological associations. Research on the growth of populations.

Prerequisite—Biology 36. (Students should not register for this course (Biology 117) without at least the rudiments of calculus and a ready familiarity with mathematical ways of thought.)

BACTERIOLOGY

PROFESSOR—G. B. Reed, M.A., B.Sc., Ph.D., F.R.S.C.

REGULATIONS

1. Students on a Pass Course taking Biology as a Major may take as a part of the Biology prescription Bacteriology 10.

2. Students taking Biology for Honours may include one or two courses in Bacteriology as part of the Biology prescription. They should consult the professor.

COURSES OF INSTRUCTION

BACTERIOLOGY 10.

An introductory course in general bacteriology, structure, physiology, fermentation and decomposition; a systematic study of the bacteria with particular reference to the pathogenic forms; infection and immunity.

Prerequisites: Biology 1 and 2 and Chemistry 1.

Lectures—Wednesday and Friday at 11.

Laboratory—Two periods per week to be arranged.

BACTERIOLOGY 13. THE PHYSIOLOGY OF BACTERIA. THE MICROBIOLOGY OF FOODS AND WATER SUPPLIES.

Hours to be arranged.

BACTERIOLOGY 20. RESEARCH IN BACTERIOLOGY.

GEOLOGY

PROFESSOR—M. B. Baker, B.A., B.Sc., F.R.S.C., F.G.S.A.

MILLER MEMORIAL RESEARCH PROFESSOR—E. L. Bruce, B.Sc.
M.A., Ph.D., F.R.S.C., F.G.S.A.

ASSOCIATE PROFESSOR—B. Rose, B.Sc., Ph.D., F.R.S.C., F.G.S.A.

ASSISTANTS—G. Darling, B.Sc., R. D. Macdonald, B.Sc., M.Sc.

RESEARCH ASSISTANT—N. H. Fraser, B.Sc.

REGULATIONS

1. Mineralogy 1 is prerequisite to Geology 10a and 11. Mineralogy 10a is prerequisite to or must be concurrent with Geology 10a. Geology 1 and 11 are prerequisite to Geology courses numbered 13, 17, 18, 19.

2. Students selecting Geology as one of the chief subjects on a Pass Course will take Geology 1, 11, and Mineralogy 1.

If the Mineralogy is being counted under another group the third course will be Mineralogy 10a and Geology 10a.

3. For information in regard to Scholarships in Geology see p. 61.

4. For Honours in Geology a student must take

(a) Twelve courses for Major as follows:

Geology 1, Mineralogy 10a, Geology 10a, 11, 13, 14a, Mineralogy 14b, Geology 15, 17, with two supporting courses, Chemistry 1 and Physics 1.

Three Reading courses, R 1, R 2, R 3.

(b) Five courses for Minor: Mineralogy 1, 11, Chemistry 2, 13, 14.

(c) Six compulsory general courses to complete the work for degree: English 1, 2, French 1 or German 1 or Greek 1, Philosophy 1, Mathematics 1, one free option.

COURSES OF INSTRUCTION

GEOLOGY 1. INTRODUCTORY COURSE IN PHYSIOGRAPHY AND GENERAL GEOLOGY.

The lectures will deal with external and internal geological processes, and their results; an outline of the history of the earth; fossils and their uses. This course will prove valuable to students who contemplate teaching Physical Geography in schools.

The lectures are illustrated by maps, models, lantern slides, and specimens.

LABORATORY WORK will consist of the examination of typical specimens of fossils, hand specimens of the more common rocks and minerals; together with the interpretation of geological maps, and types of topography. The laboratory work will also include field trips. It is therefore necessary that students should select their laboratory section on an afternoon on which they have no other laboratory period. The expenses of these trips are covered by the laboratory deposit.

Text-book: Norton, *Elements of Geology* (Ginn & Co.).

Lectures—Monday and Wednesday at 11.

Laboratory—Wednesday 1-3, or Thursday 1-3.

Professor Rose.

GEOLOGY 10a. ELEMENTARY PETROGRAPHY.

This course is essentially on igneous Geology and Petrography, and will consist of lectures on the geological occurrences of igneous rocks. The lectures will be illustrated by projections of thin sections of rocks, and will be supplemented by laboratory work on hand specimens and rock slices. Mineralogy 10a is prerequisite to, or concurrent with, Geology 10a.

Text-books:

Luquer, *Minerals in Rock Sections*.

Pirsson, *Rocks and Rock Minerals*.

Lectures—Tuesday and Friday at 11.

Laboratory—Tuesday, 2-4.

Professor Baker.

GEOLOGY 11. STRUCTURAL GEOLOGY, AND PHYSIOGRAPHY.

Inherent and imposed structures in sedimentary, igneous, and metamorphic rocks, with particular attention to sedimentation, diastrophism, and volcanism.

Topography using structure as a basis of interpretation. Physiographic cycles, under normal, arid, glacial, karst and marine conditions. The interpretation of topographic and geologic maps. Illustrations from Canadian occurrences where possible.

Reference Books:

Pirsson and Schuchert, *Text Book of Geology*, Part I.

Willis, *Geologic Structures*.

Leith, *Structural Geology*.

Busk, *Earth Flexures*.

Twenhofel, *Treatise on Sedimentation*.

Collet, *The Structure of the Alps*.

Salisbury, *Physiography*.

Cotton, *Geomorphology of New Zealand*, Part 1.

Dake and Brown, *Interpretation of Topographic and Geologic Maps*.

Young, *Geology of Canada*.

Lectures—Wednesday and Friday at 9.

Laboratory—Monday, 8-10.

Professor Rose.

GEOLOGY 13. HISTORICAL GEOLOGY.

Continental evolution and geologic life development with special reference to North America.

Text-book:

Schuchert and Dunbar, *Text-book of Geology*, Part II, *Historical Geology*, 3rd Ed. (John Wiley and Sons).

Lectures—Tuesday and Thursday at 9.

Professor Rose.

GEOLOGY 14a. ADVANCED PETROGRAPHY.

A course of lectures will be given on the classification of igneous rocks, and on their origin, geological form, and general field characters. The lecture work will be supplemented by assigned special reading and by laboratory work with both hand specimens and microscopic slides. Special attention will also be paid to the metamorphic rocks.

Lectures—Wednesday and Friday at 10.

Laboratory—Two hours per week to be arranged with the class.

Professor Baker.

GEOLOGY 15. ECONOMIC GEOLOGY AND GEOLOGY OF CANADA.

The work in this class is an illustration of the principles of ore deposition, with particular reference to iron, copper, nickel, zinc, lead, silver, gold, aluminum, peat, coal, gas, oil, salt, abrasive and refractory materials. A few lectures on building stone, and the manufacture of clay products will be given.

A course of lectures on the age, classification, structure, and distribution of the chief rock formations in Canada; also a discussion of the character, structure, and chief economic associations of the pre-Cambrian formations in Canada.

*Lectures—Monday at 10, and Thursday at 1.
Tuesday at 11.*

Professor Baker.

Professor Bruce.

GEOLOGY 17. FIELD AND LABORATORY GEOLOGY.

Class conducted Monday, 1-5.

Offered next in session 1936-7.

GEOLOGY 18. SYSTEMATIC PALEONTOLOGY.

Fossils, their classification and identification.

Lectures and Laboratory—to be arranged with the class.

Professor Rose.

GEOLOGY 19. STRATIGRAPHY.

Interpretation of sediments and sedimentary processes; the geologic and geographic distribution of fossils.

Lectures and Laboratory—to be arranged with the class.

Professor Rose.

READING COURSES IN GEOLOGY:

*Books marked thus must be procured by the student for himself.

R 1. History of the Progress of Geology.

*Agar, Flint and Longwell, *Geology from Original Sources* (Holt).

*Willis and Salisbury *Outlines of Geologic History* (University of Chicago Press).

*Crook, *History of the Theory of Ore Deposits and the Rise of Petrology* (Thos. Murby).

Geikie, *The Founders of Geology*.

R 2. Rock Magmas and their Behavior.

*Tyrrell, *The Principles of Petrology* (Dutton) New York.

*Daly, *Igneous Rocks and the Depths of the Earth* (McGraw-Hill).

*Stansfield, *Assimilation and Petrogenesis* (Valley Pub. Co.), Urbana, Ill.

Rastall, *Geological Magazine*, Vol. xxvii, p. 290.

Leith, *Economic Aspects of Geology* (Holt).

R 3. A satisfactory report of geological field work done by the student, with a knowledge of the literature of the area involved will be accepted for R 3. Otherwise, a third reading will be assigned the individual student who has not had opportunity to do field work.

GRADUATE COURSES

These courses are open only to graduate students.

Field excursions are required for all these courses.

Geology 113, Principles of Pre-Cambrian Geology. The origin, history and distribution of the rocks older than the Cambrian. Special

attention will be given to the Canadian pre-Cambrian areas. The course will be given in alternate years. It will be offered in 1936-37.

Lectures—Wednesday and Friday at 9.

Laboratory—Wednesday, 1-4.

Professor Bruce.

Geology 114, Metamorphic Geology. A study of the changes that rocks undergo. Special attention will be paid to the origin of gneisses and schists. It will be given in 1936-37.

Lectures—Tuesday and Thursday at 9.

Laboratory—Thursday, 1-4.

Professor Bruce.

Geology 115. Pre-Cambrian Ore Deposits. Discussion of ore deposits in Pre-Cambrian rocks with especial reference to those in Canada. The genesis and character of the deposits will be studied in detail.

This course will not be offered in 1936-37. Prerequisites: Geology 1 and 10a, Mineralogy 1, 10a, and 11. It is advisable that Geology 11, 12 and 15 shall also have been taken.

Text-book:

Bruce, *Mineral Deposits of the Canadian Shield* (The Macmillan Co.).

Professor Bruce.

GEOLOGY 116. STRUCTURAL PETROLOGY.

Introduction to the statistical methods (Sander and Schmidt) of analysis of oriented rock sections. Field structures will be discussed in terms of these methods and various applications pointed out. The laboratory work will consist of practice with the universal stage and interpretation of various types of structure indicated by orientation diagrams.

Previous work in petrography and structural geology is requisite.

Offered in 1936-37.

Lectures—2 hours.

Laboratory—2 hours.

Dr. Fairbairn.

Seminar: A seminar for graduate students meets every two weeks for discussion of geological literature. Attendance is voluntary and no formal registration is required.

MINERALOGY

PROFESSOR—J. E. Hawley, B.A., M.A., Ph.D., F.G.S.A., F.R.S.C.

INSTRUCTOR—H. W. Fairbairn, B.Sc., M.A., Ph.D.

REGULATIONS

1. Students taking Mineralogy 1 must have matriculation in Chemistry, or have passed in Chemistry 1, or take Chemistry 1, concurrently. Those having only Matriculation in Chemistry are advised to take Chemistry 1 before, or with, Mineralogy 1.

2. *Pass Course.* Mineralogy 1, 10, 11 are the three courses necessary if Mineralogy is selected as one of the chief subjects of a Pass Course. For such students it is recommended that Geology and Chemistry be made the other concentration groups.

3. For Honours in Mineralogy a student must take:

(a) Twelve courses for a Major as follows:

Mineralogy 1, 10a, 10b, 11, 12, 13, Geology 1, 10a, 14a, and 11 or 15, Physics 2.

Three Reading courses, R1, R2, R3. Field work or research approved by the department may be substituted for one of the Reading courses.

(b) Five courses for Minor: four courses in Chemistry with Physics 1.

(c) Six compulsory general courses to complete the work for degree: English 1, 2, French 1 or German 1 or Greek 1, Philosophy 1, Mathematics 1, one free option.

4. Mineralogy as a Minor—(a) Mineralogy 1, 10a, 10b, 11, 12, 13.

(b) Split Minor with other sciences—Mineralogy 1, 10a, and 11 with any other course in Mineralogy if desired.

5. For admission to an Honours Course in Mineralogy a student must have made 62 per cent. in Mineralogy 1. Students intending to take this course should consult with the Department regarding the order in which the courses should be taken. Attention is called to the general regulations regarding entrance to and continuance in Honours Courses.

6. All students in Mineralogy are expected to take part in the field excursions which are made during October and November. Students

taking or having taken the Geology 1 field trips need not repeat them for Mineralogy.

7. Each student in the Department is supplied with a locked cabinet containing about 150 mineral specimens.

COURSES OF INSTRUCTION

MINERALOGY 1.

A course in Elementary Crystallography, Blowpipe Analysis and Descriptive and Determinative Mineralogy of about 100 common or more important minerals.

Prerequisite—Matriculation Chemistry or Chemistry 1 taken concurrently.

Text-book: Ford, *Dana's Manual of Mineralogy*, 14th Ed. (John Wiley and Sons, Inc., New York, 1929).

For students intending to continue in Mineralogy, Ford, *Dana's Text-book of Mineralogy*, 4th Edition (John Wiley and Sons, Inc., New York, 1932).

Lectures—Tuesday and Thursday at 10.

Laboratory—Friday, 2-4.

Professor Hawley and Dr. Fairbairn.

MINERALOGY 10a. ELEMENTS OF OPTICAL MINERALOGY.

Optical properties of crystals including non-opaque minerals and chemical compounds.

Text:

A. N. Winchell, *Elements of Optical Mineralogy*. 3rd Ed. (John Wiley and Sons, 1928).

Reference Books:

Thin Section Mineralogy, Rogers and Kerr (McGraw-Hill, 1933).

Optic Properties of Crystals, Groth and Jackson, (Wiley and Sons 1910).

Manual of Petrographic Methods, Johannsen (McGraw-Hill, 1914).

Lectures—Monday and Friday at 10.

Laboratory—Friday, 8-10 or 1-3.

Professor Hawley.

MINERALOGY 10b. OPTICAL AND PHYSICAL MINERALOGY AND CRYSTALLOGRAPHY.

An advanced course in the character of crystals, crystal measurements and crystal drawing.

Prerequisites—Mineralogy 1, Physics 1.

Lectures—Monday and Friday at 10.

Laboratory—Saturday, 10-12.

Professor Hawley and Dr. Fairbairn.

MINERALOGY 11. DESCRIPTIVE AND DETERMINATIVE MINERALOGY.

The properties, occurrences and uses of ore and other important minerals.

Prerequisites—Mineralogy 1 and 10a; students on an Honours Course may take 10a and 11 at the same time.

Textbook:

Dana's Text-Book of Mineralogy, Ford, 4th Ed. (John Wiley and Sons).

Reference Book:

Mineral Deposits, Lindgren (McGraw-Hill, 1933).

Lectures—Tuesday 8, Thursday 8.

Laboratory—Wednesday, 1-3.

Professor Hawley and Dr. Fairbairn.

MINERALOGY 12. NON-METALLIC MINERALS AND THEIR TECHNOLOGY.

A study of (1) the optic properties of the feldspars and other rock-forming minerals, (2) the occurrence and utilization of non-metallic minerals.

Lectures—Wednesday and Friday at 11.

Laboratory—Saturday 10-12.

Text-book:

A. N. Winchell, *Elements of Optical Mineralogy*, Part II, 3rd Edition (Wiley and Sons, 1933).

Reference Books:

Publications of: Geological Survey of Canada, Mines Branch, Dept. of Mines, Canada; U.S. Geological Survey.

R. B. Ladoo, *Non-Metallic Minerals* (McGraw-Hill, 1925).

Professor Hawley.

MINERALOGY 13. ORE MINERALS AND MINERALOGRAPHY.

An advanced study of ore minerals and their genesis. Laboratory work will consist of a study of specimens from many deposits by means of the reflecting and petrographic microscopes. This class will alternate with Mineralogy 115. Not given during session 1936-1937.

Lectures and Laboratory, four hours a week, to be arranged.

Professor Hawley.

MINERALOGY 14b. MINERALOGRAPHY.

For students on Honours Geology Course. An advanced course in the study of metallic minerals in polished sections.

Laboratory—Four hours a week, to be arranged.

Reading to be assigned.

Professor Hawley.

READING COURSES IN MINERALOGY:

R 1. World Distribution of Minerals and its Significance.

C. K. Leith, *World Minerals and World Politics* (McGraw-Hill, 1931).

*World Atlas of Commercial Geology, Part 7, Distribution of Mineral Production, U.S.G.S., 1921.

*F. W. Clarke, *The Data of Geochemistry*, 5th Ed., U.S.G.S. Bulletin 770.

Mineral Economics, Vol. III., Am. Institute of Mining Engineering Series, McGraw-Hill, 1932.

R 2. X-rays and Crystal Structure.

*R. W. James, *X-ray Crystallography*, 1930 (Methuen and Co., London).

*W. H. Bragg and W. L. Bragg, *X-rays and Crystal Structure* (G. Bell and Sons, London, 1924).

R 3. Metamorphism of Minerals.

C. K. Leith and W. J. Mead, *Metamorphic Geology* (New York, 1915).

F. W. Clarke, *The Data of Geochemistry*, 5th Ed., U.S.G.S. Bulletin 770.

Selected Papers in the Journal of Geology and Economic Geology.

Note: Field work or research on mineral deposits may be substituted for one of the above reading courses. A complete report of such work must be submitted to the department.

*Books to be purchased by students. Others may be secured from departmental library.

GRADUATE COURSES

Lecture courses: Mineralogy 115 and 116. By special arrangement certain courses in Geology may be substituted.

MINERALOGY 115. ADVANCED OPTICAL MINERALOGY.

Offered in alternate years with Mineralogy 116.

Given in session 1936-1937.

Text-book:

A. N. Winchell: *Elements of Optical Mineralogy*, Part II,
(J. Wiley and Sons, 1927).

Lectures and Laboratory—Six hours, to be arranged.

Professor Hawley.

MINERALOGY 116.

(a) ADVANCED CRYSTALLOGRAPHY:

(b) MINERALOGRAPHY:

Not offered in session 1936-1937.

Text-book:

Determination of Opaque Minerals, C. M. Farnham, 1st ed.
(McGraw-Hill, 1931).

Lectures and Laboratory—to be arranged.

Directed Special Studies, on either metallic or non-metallic minerals,
with Thesis.

Professor Hawley.

For Geology 117, or Structural Petrology, see Geology prescription.
This course may be taken as a graduate course in Mineralogy. Offered
1936-37.

GRADUATE COURSES

DEGREE OF MASTER OF ARTS

1. All candidates for the degree of Master of Arts must have taken the degree of Bachelor of Arts with at least second class Honours.

2. Application for permission to become a candidate for the degree of Master of Arts must be made to the Registrar at least two weeks before the opening of the session. Applicants, if not graduates of Queen's University, must send official certificates giving full details of their previous academic training, including courses taken and grades received, together with a marked Calendar showing the content of the courses. They should also state in what field they desire to carry on their studies.

3. The degree of Master of Arts is given in recognition of a Course of intensive study in the work of one Department of the Faculty of Arts.

This Course consists of:

- (i) Special study under the direction of the Department concerned, together with reports, essays, and conferences, as required.
- (ii) The composition of a thesis.

The Department may also require a candidate to attend:

- (a) Lectures cognate to the subject of the Course of study.
- (b) Lectures prerequisite to the Course of study, which are not reckoned as part of the prescribed Course.

The weight of work required is approximately equivalent to that of four Honours courses of lectures, the thesis being reckoned as half of that amount.

The prescription for each candidate is drawn up by the Department concerned and must be approved by the Faculty of Arts.

4. All candidates must take the following examinations:

- (i) Written Examinations:
 - (a) on all lecture courses prescribed; excepting prerequisite lectures (see 3b);
 - (b) on the directed special study.

The standing required in these examinations is that of second class Honours.

- (ii) An oral examination on the subject of the thesis submitted.

The Board of Examiners will in each case include:

- (a) at least two members of the Department concerned;
- (b) at least two members of the Faculty who are not members of the Department concerned.

Each candidate must submit three typed or bound copies of the thesis to the Registrar by April first of the year in which he expects to take his Master's degree.

5. The fees charged are as follows: Sessional fee, \$85.00; Student Interest fees, \$23.00. If any laboratory work is taken, an additional fee of \$10.00 will be charged and a deposit of \$10.00. (See FEES, p. 52).

6. Except by special permission of the Faculty, candidates are required to do all the work for the Master's degree in residence. On the recommendation of the Department concerned the Board of Studies may allow a candidate for the M.A. degree to fulfil at another institution of learning all or part of the requirements as to work and residence prescribed by the Board, provided

- (1) that the candidate holds an Honours B.A. from Queen's in the same field as that of the M.A. work,
- (2) that the subjects of study and of the thesis is approved by Queen's and that the work be done under satisfactory supervision.
- (3) that a certificate is required showing that the candidate has given full satisfaction,
- (4) that the thesis is read and accepted by the Department concerned at Queen's and that the candidate is examined for the degree at Queen's both orally and in writing, and
- (5) that the course at the other institution is considered by the Board of Studies to be at least the equal of that offered by Queen's.

THE DEGREE OF DOCTOR OF PHILOSOPHY

The University will accept candidates for the degree of Ph.D. only when it is satisfied that the Departments concerned are in a position to give the Course adequate attention and that the candidate is qualified to undertake the work.

A statement of the regulations governing the Course will be sent on application.

DEGREES, MEDALS, SCHOLARSHIPS, AND PRIZES

1935

DEGREES

HONORARY DEGREES

Degree of LL.D.

Clark, W. Clifford
Duff, Chief Justice Lyman
Ettinger, John George
Gibson, Arthur
McArthur, Duncan

Degree of D.D.

Slater, The Reverend J. R. P.

DEGREES BY EXAMINATION

Degree of Ph.D.

MacKinnon, John Y. Brantford, Ont.

Degree of B.D.

Patterson, John William Inverary, Ont.
Wragg, Charles Robert Clarke, Ont.
Wylie, William George Gorrie, Ont.

Degree of M.A.

*Bell, Andrew Beauchamp Mackintosh Almonte, Ont.
Brown, Barbara Eleanor Aultsville, Ont.
Browne, Roland Andrew Montclair, N.J.
Brydon, Alexander McKay Collingwood, Ont.
Davoud, Harry Tandy Kingston, Ont.
Hewitt, Robert Leigh Medicine Hat, Alberta
Horn, Wallace Randolph Hampton, Ont.
Kidd, Catharine Elizabeth Gananoque, Ont.
Lief, Morris Ottawa, Ont.
Lyons, Marjorie Eleanor Kingston, Ont.
Moss, Percy Ernest Oshawa, Ont.
Weston, Arthur Walter Smith's Falls, Ont.
Woolsey, Catharine Maud Ottawa, Ont.

*Indicates graduates of October, 1935.

Degree of B.A. (Honours)

- Adams, Ada Josephine (Latin and French) Wales, Ont.
 Alexander, W. A. (New System of Studies:
 Chemistry, 1st Class Honours; Physics,
 2nd Class Honours) Shawville, P.Q.
 Bateman, G. L. (Chemistry and Biology) Parham, Ont.
 Bell, A. B. M. (History and Politics) Almonte, Ont.
 *Bell, J. H. (New System of Studies:
 Philosophy, 1st Class Honours; English,
 1st Class Honours) Hamilton, Ont.
 Cowie, M. A. (New System of Studies:
 German, 1st Class Honours; French,
 2nd Class Honours) Sault Ste. Marie, Ont.
 Ferguson, H. T. (French and German) Gananoque, Ont.
 Francis, Hazel Mary (English and History) Brockville, Ont.
 Gowans, Barbara A. (New System of Stu-
 dies: English, 2nd Class Honours; His-
 tory, 2nd Class Honours) Kirkland Lake, Ont.
 Grant, A. J. (Philosophy and History) Williamstown, Ont.
 Hall, O. (New System of Studies:
 Economics, 2nd Class Honours; Philo-
 sophy, 1st Class Honours) Cecil, Sask.
 Horne, W. C. (General Science) Thessalon, Ont.
 Laidley, Rhoda Mae (Chemistry and
 Biology) Kingston, Ont.
 Lakie, A. L. (Chemistry and Biology) Port Colborne, Ont.
 Lander, F. W. (New System of Studies:
 Greek, 3rd Class Honours; Latin, 2nd
 Class Honours) Plainville, Ont.
 Lang, Gladys H. M. (Biology and
 Chemistry) Sarnia, Ont.
 *Langford, H. H. (History and English) Kingston, Ont.
 *Lean, Dorothy A. (Mathematics and
 Physics) Cobourg, Ont.
 *Lemmon, Marguerite V. (Mathematics
 and Economics) Kingston, Ont.
 *Loggie, Dorothy C. (English and History) Toronto, Ont.
 Lorimer, Edna A. (English and French) Brockville, Ont.
 *Mark, Irene H. (French and German) Peterborough, Ont.
 Mark, Jetta M. (French and English) Parkhill, Ont.
 Miller, Dora M. (English and French) Schreiber, Ont.
 Morse, E. W. (History and Political
 Science) Port Hope, Ont.
 *Murphy, Ethelwynne (English & French) Kingston, Ont.
 McGinnis, Norah A. (New System of
 Studies: Chemistry, 1st Class Honours;
 Biology, 1st Class Honours) Kingston, Ont.
 McLellan, Marion E. (English and French) Perth, Ont.
 MacRae, C. R. (Chemistry and Biology) Lancaster, Ont.
 Reid, A. N. (New System of Studies:
 Economics, 1st Class Honours; History,
 2nd Class Honours) Kingston, Ont.
 Roberts, Geraldine M. (History & English) Sydenham, Ont.
 Scobie, Vivienne J. (Mathematics and
 Physics) Wilton Grove, Ont.

*Seon, Margaret R. (English and French)	Devonshire North, Bermuda
Shepard, Martha (New System of Studies: English, 2nd Class Honours; History, 2nd Class Honours)	Toronto, Ont.
*Shillington, Evelyn C. (English and History)	Blenheim, Ont.
Showman, Eva M. (History and English)	Ottawa, Ont.
*Smith, A. B. (Biology and Chemistry)	Curries, Ont.
Smith, A. H. (New System of Studies: Philosophy, 1st Class Honours; English, 2nd Class Honours)	Paris, Ont.
Sternberg, R. M. (New System of Studies: Geology, 2nd Class Honours; Biology, 2nd Class Honours)	Ottawa, Ont.
Teal, A. L. (History and English)	Ridgeway, Ont.
*Thompson, F. D. (Mathematics and Physics)	Marlbank, Ont.
Thornton, J. E. H. (Mathematics and Physics)	Janetville, Ont.
Tilley, Myra D. (English and French)	Kingston, Ont.
Wallbridge, J. F. (Economics and Philosophy)	Windsor, Ont.
Ward, A. G. (New System of Studies: Physics, 1st Class Honours; Mathema- tics, 1st Class Honours)	Peterborough, Ont.
Way, R. L. (History and English)	Kingston, Ont.
Weir, J. T. (New System of Studies: Economics, 2nd Class Honours; His- tory, 2nd Class Honours)	Toronto, Ont.
Wilson, F. J. (History and English)	Sunderland, Ont.
Wylie, W. G. (History and English)	Gorrie, Ont.

Degree of B.A. (Pass)

*Abramsky, J.	Belleville, Ont.
Anderson, A. C.	Picton, Ont.
Anglin, Violet C.	Kingston, Ont.
Ault, G. A.	Ottawa, Ont.
Baker, Elisabeth F.	Kingston, Ont.
Baker, L. Merle	Sunderland, Ont.
Ball, G. A.	Ottawa, Ont.
*Barnard, J. K.	Toronto, Ont.
Bartlett, Marion E.	Cobalt, Ont.
Belyea, V. L.	Bronte, Ont.
Billings, Lola	Kingston, Ont.
*Blake, Marion W.	Deseronto, Ont.
*Bolger, Mary E.	Mallorytown, Ont.
Boyle, Catherine J.	Weston, Ont.
Brennan, F. C.	Deseronto, Ont.
Brown, Audrey R.	Port Hope, Ont.
Brown, Edith M.	Kingston, Ont.
Brown, L. L.	Ottawa, Ont.
Browne, Ruth M. H.	New Brunswick, N.J.
Bruce, Margaret A.	Ottawa, Ont.
Brunton, K. S.	Marvelville, Ont.
Calvin, Barbara M.	Toronto, Ont.

Campbell, V. M.	Ottawa, Ont.
Carriere, D. W.	Timmins, Ont.
Chambers, M. Margaret	Regina, Sask.
Clark, Kathleen T.	Cornwall, Ont.
Clarke, Elizabeth F.	Kingston, Ont.
Clazie, J. A.	Port Elgin, Ont.
Clemens, Ruth I.	Toronto, Ont.
Cornell, Evelyn M.	Iroquois, Ont.
Couch, Marguerite A.	Smith's Falls, Ont.
Cramp, Florena	Kirkland Lake, Ont.
*D'Aoust, Jeanne	Ottawa, Ont.
Dempsey, W. A.	Russell, Ont.
*Dimitrova, Lilianna	Kapuskasing, Ont.
Dobie, E. F.	Blyth, Ont.
Easton, Olive G.	Renfrew, Ont.
*Edgar, W. B.	Toronto, Ont.
Elkington, J. N. W.	Griffin, Sask.
Elmsley, C. M. R.	Windsor, Ont.
Facey, D. A.	Moorefield, Ont.
*Fairweather, C. Lillian	Bloomfield Station, N.B.
Fenton, Reta M.	Kemptville, Ont.
Finlay, C. F. J.	Niagara Falls, Ont.
Fletcher, Stella A.	Kemptville, Ont.
Fournier, C. H. J.	Kingston, Ont.
Fraser, Mary R.	Kingston, Ont.
Fritz, W. D.	Toronto, Ont.
Gallaher, Helen L.	Ottawa, Ont.
*Gesche, Evelyn E.	Ottawa, Ont.
Graham, Dorothea	Ottawa, Ont.
Haggerty, Mary Emma	Belleville, Ont.
Hamilton, Helen M.	Chesterville, Ont.
*Hancock, Eileen M.	Simcoe, Ont.
Hare, W. A.	Oshawa, Ont.
Harrington, W. M.	Powasson, Ont.
Henley, J. W.	Oshawa, Ont.
Hogarth, Evelyn R.	Hamilton, Ont.
Hogarth, W. L.	Timmins, Ont.
Holland, A. C.	Ottawa, Ont.
*Holloway, Maud E.	Verdun, P.Q.
*Hurd, G. R.	Sawyerville, P.Q.
Janusson, Laufey	Foam Lake, Sask.
Jenkins, H. R.	Haileybury, Ont.
*Johnston, Claire M.	Ottawa, Ont.
Kelley, L. A.	Ottawa, Ont.
*Ketchen, Helen C.	Toronto, Ont.
Kidd, Eleanor L. J.	Cobourg, Ont.
Kimmins, Fay L.	Niagara Falls, Ont.
Kirkpatrick, C. C. F.	Kingston, Ont.
*Kirkwood, W. P.	Chesley, Ont.
*Kohler, H. L.	Ottawa, Ont.
*Lackey, Helen G.	Martintown, Ont.
Lalonde, Mary J.	North Bay, Ont.
Larry, H. O. W.	Trenton, Ont.
Lean, Dorothy A.	Cobourg, Ont.
Lee, Margaret E.	North Bay, Ont.
Leng, J. R.	Schumacher, Ont.
Leslie, Helen M.	Haileybury, Ont.

Logan, F. L.	Brockville, Ont.
Loggie, Dorothy C.	Toronto, Ont.
Love, M. W.	Milford, Ont.
*Malen, D. S.	Outremont, P.Q.
Marett, Dorothy J.	Marmora, Ont.
Mark, Irene H.	Peterborough, Ont.
Matheson, A. D.	Sudbury, Ont.
Millard, Ethel M.	Kingston, Ont.
Miller, Marion E.	Carleton Place, Ont.
Mitchell W.	Hamilton, Ont.
Moore, A.	North Bay, Ont.
Morrison, M. R.	Ottawa, Ont.
*Munro, R. B.	Peterborough, Ont.
*McCance, R. A.	St. Thomas, Ont.
McCann, Marie E.	Westport, Ont.
McCulloch, Enid W.	Ottawa, Ont.
MacDonell, Annie E.	Green Valley, Ont.
MacDougall, J. L.	Barrie, Ont.
McLaren, C. A.	Lanark, Ont.
McLaughlin, F. W.	Lewvan, Sask.
*MacMillan, F. B.	Cornwall, Ont.
McPhee, Catherine G.	Kirkland Lake, Ont.
McTear, E. Lucia	Cataraqui, Ont.
Naphtali, Dorothy K.	Hamilton, Ont.
Noble, J. A.	Port Hope, Ont.
Norton, Mary A. M.	Kemptville, Ont.
Parker, F. L.	Calgary, Alberta
*Paulsen, Helen M.	Hamilton, Ont.
Peacock, Edith M.	Toronto, Ont.
*Pense, Edith O.	Kingston, Ont.
*Perdue, J. H.	Wingham, Ont.
Pow, A. W.	Toronto, Ont.
*Prebble, P. H.	Saint John, N.B.
Radler, H. A.	Montreal, P.Q.
*Richardson, G. W.	Ottawa, Ont.
*Richardson, Katharine J.	Kingston, Ont.
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